

2023-2024

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Tsinghua *University* *Press*

清华大学出版社成立于1980年，是由中国教育部主管、中国顶尖名校清华大学主办的国家一级出版社，也是中国领先的综合性教育与专业出版机构，荣获“中国出版政府奖先进出版单位”、“全国百佳图书出版单位”、“全国优秀出版社”和“全国先进高校出版社”等称号。

清华大学出版社现有员工约500人，设有8个图书分社、1个期刊中心和1个数字出版中心。现年出版新书约近3000种，图书类别涉及学术专著、大中专教材、大众读物和少儿图书，涵盖自然科学、工程技术、医学、人文社会科学和外语教育等领域。图书的销售规模和综合实力以及在中国高等教育教材市场、科技图书市场、图书馆图书配置市场的占有率均名列前茅。

清华大学出版社重视国际化发展，积极开展版权贸易，每年从海外几十家出版公司引进数百种图书版权，同时面向全球推广版权，进行国际合作，已有1300余项30多个文种的各类图书版权输出到北美、欧洲和亚洲国家。

清华大学出版社现出版学术期刊53种，其中35种为英文版期刊，13种被SCI收录，以《纳米研究》和《清华大学学报（自然科学版）》为代表的一批高水平的国际化期刊在国内外的学术影响力日益增强。

清华大学出版社在数字教育、数字阅读以及多形态多媒体出版物开发和应用推广方面，积累了大量的经验，入选数字出版转型示范单位。

As an integral part of China's most prestigious university—Tsinghua University, Tsinghua University Press (TUP) was established in 1980 and is a first-class national comprehensive publisher, with a strong presence in China's higher education, science and technology and library purchase book markets.

Consisting of 8 book publishing branches, a journal center and a digital publishing center, TUP employs a staff of over 500 and publishes up to 3000 new titles each year. Our publications include academic monographs, college textbooks, trade books and children's books, covering a broad spectrum of subjects, such as STEM, social science, humanities and foreign language learning.

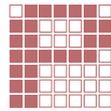
TUP attaches great importance to international development and engages actively in copyright trade. While introducing hundreds of titles from dozens of overseas publishers each year, we have also licensed over 1300 titles in more than 30 languages to publishers in North America, Europe and Asia in total to date.

TUP has released 53 academic journals, 35 are in English and 13 were indexed by SCI. A number of our high-level international journals, represented by Nano Research and Journal of Tsinghua University (Science and Technology), have gained increasing global influence.

TUP is an experienced publisher in the development and marketing of e-learning, academic platforms, digital books and multimedia publications and have launched a number of well-received internet products, which were prized and supported by the State Administration of Press, Publication, Radio, Film and Television (SAPPRF).

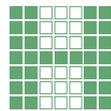


目录 CONTENTS



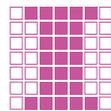
政治 经济
Politics and Economy

1



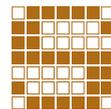
历史 文化 艺术 建筑
History, Culture, Arts and
Architecture

31



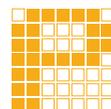
信息
Information Technology

52



理工 医学
STEM Books

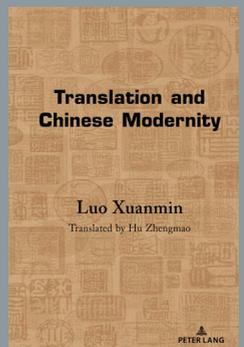
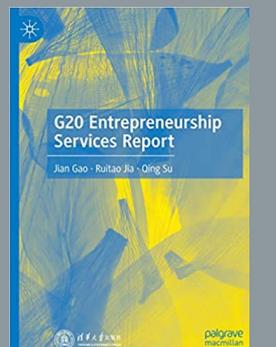
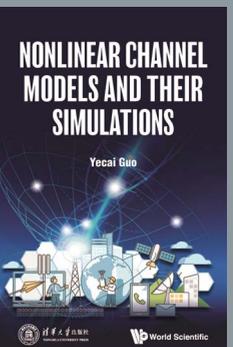
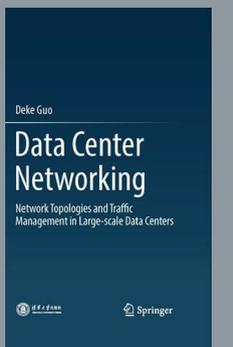
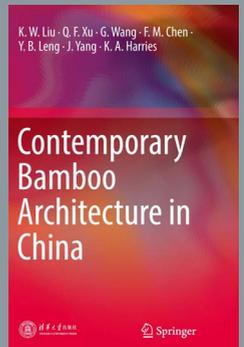
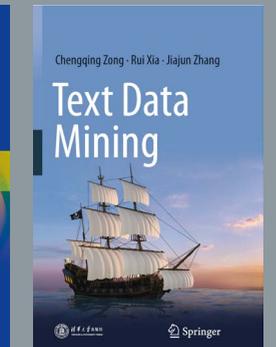
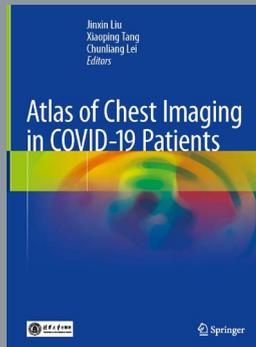
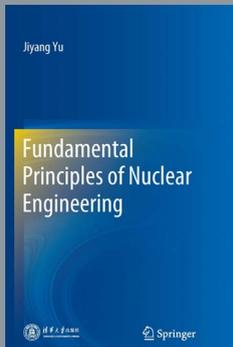
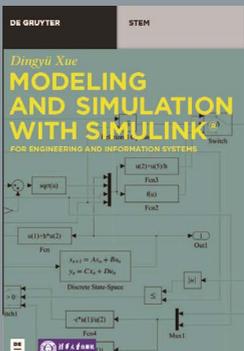
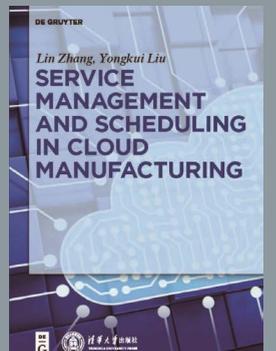
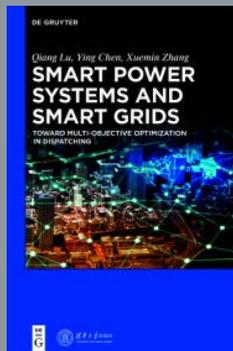
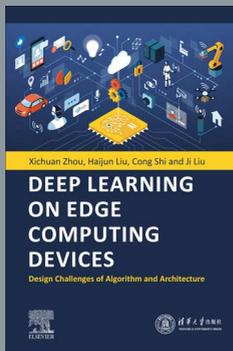
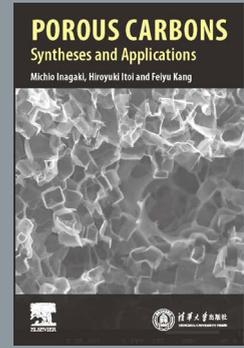
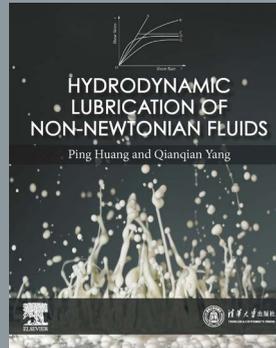
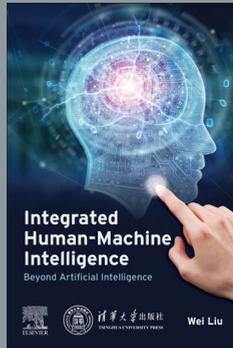
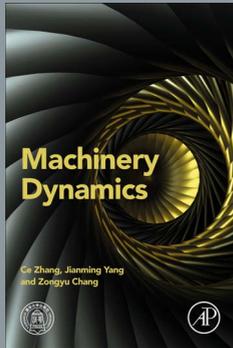
87

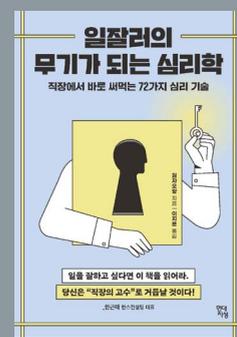
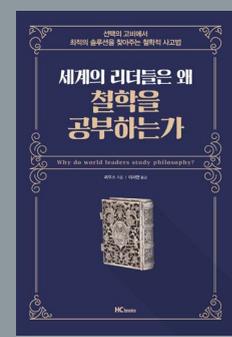
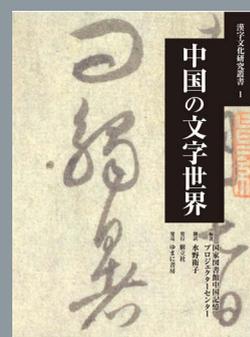
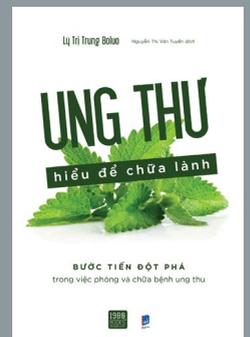
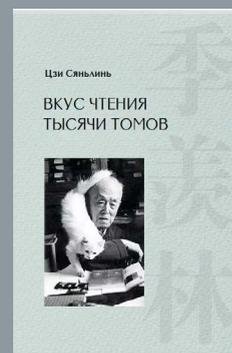
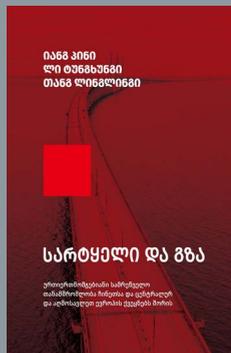
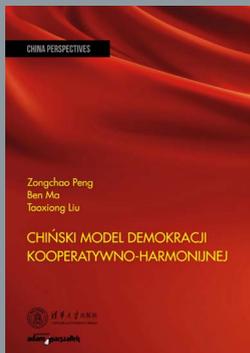
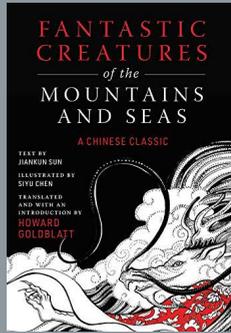
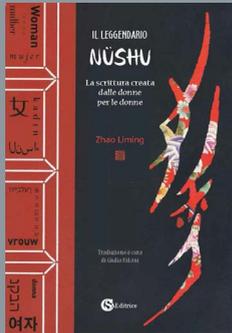


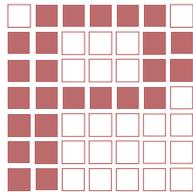
科普少儿
Popular Science and Children's
Books

131

海外新出的清华大学出版社版权图书 New TUP Titles Published Overseas







政治 经济
Politics and Economy

伟大复兴：中国式现代化的国情研究

Great Rejuvenation: A Study of the National Conditions of Chinese-Style Modernization



作者：胡鞍钢、周绍杰、谢宜泽

Author: HU Angang, ZHOU Shaojie, XIE Yize

ISBN: 9787302627050

Publication Date: 2023/3/1

Page Count: 320

About the Book:

本书对中国式现代化道路的总体特征进行了描绘，对中国政治、经济、社会、文化、生态文明多方面取得的成就进行了立体化呈现，前瞻性地回答了有关百年未有之大变局、举国体制、绿色发展、共同富裕等一系列社会关注的热点问题，形成了对中国式现代化的全面阐述。本书的重要特点就是通过对历史脉络的梳理，显示中国式现代化的发展性、阶段性以及未来前景；同时着眼于国际比较，特别是与西方国家的量化对比，显示中国式现代化的快速追赶效应，从而为那些追求并实现现代化的发展中国家提供重要的借鉴和具体的路径。

This book comprehensively depicts the overall characteristics of the Chinese-style modernization path. It portrays China's achievements in various aspects such as politics, economy, society, culture, and ecological civilization in a three-dimensional way, offering prospective answers to a series of hot topics that concern society, including the profound changes unseen in a century, the whole nation system, environmentally friendly development, and common prosperity. The book forms a comprehensive exposition of Chinese-style modernization. One key feature of this book is its examination of historical context, revealing the developmental features, phases, and future prospects of Chinese-style modernization. Meanwhile, it focuses on international comparisons, particularly quantitative comparisons with Western countries, to showcase China's rapid catch-up effect in modernization. Thus, this book serves as a valuable reference and practical guide for other developing countries.

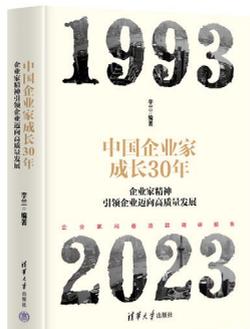
About Author:

胡鞍钢，清华大学人文社科资深教授、清华大学国情研究院院长。

Hu Angang is a senior professor of humanities and social sciences and Dean of the Institute for Contemporary China Studies at Tsinghua University.

中国企业家成长30年：企业家精神引领企业迈向高质量发展

Chinese Entrepreneurs' Growth in the Past 30 Years: Entrepreneurship Leads Companies Toward High-Quality Development



作者：李兰

Author: LI Lan

ISBN: 9787302643128

Publication Date: 2023/8/1

Page Count: 296

About the Book:

本书作为国内长期以大规模企业家调查实证数据刻画企业家队伍成长的著作，以改革开放以来中国社会经济发展历程为背景，基于企业内外环境的变化和新时代企业高质量发展的新考验，以中国企业家调查系统课题组1993-2023年连续三十年的调查数据为基础，通过大量详实、客观的第一手数据，真实记录了中国企业家队伍的 growth 轨迹与历史阶段，分析了其中影响因素及变化规律、取得的进步和存在的问题，并提出了以不断丰富升华的企业家精神引领企业高质量发展的政策建议。

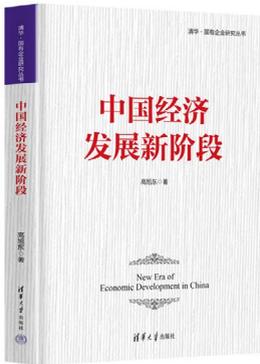
This book depicts entrepreneurs' growth, drawing from the empirical data collected through the long-term and large-scale surveys of Chinese entrepreneurs. Set against the backdrop of China's socioeconomic development since the reform and opening-up, the book is based on the changes in enterprises' internal and external environments and the new challenges posed by high-quality corporate development in the new era. Drawing on the survey data spanning the thirty years from 1993 to 2023 by the China Entrepreneur Survey System research team, the book truthfully records the growth trajectory and historical stages of Chinese entrepreneurs with a vast amount of detailed and objective first-hand data. It analyzes the influencing factors and change patterns, the progress made, and the existing issues. Furthermore, the book presents policy recommendations for guiding high-quality corporate development with the continually evolving and elevated spirit of entrepreneurship.

About Author:

李兰，国务院发展研究中心公共管理与人力资源研究所所长、研究员，在人才研究领域深耕三十余年。

Li Lan is the Director and a researcher at the Institute of Public Administration and Human Resources at the Development Research Center of the State Council. She has been deeply engaged in talent research for over thirty years.

中国经济发展新阶段



New Era of Economic Development in China

作者：高旭东

Author: GAO Xudong

ISBN: 9787302615095

Publication Date: 2022-08-01

Page Count: 180

About the Book:

中国经济发展已经进入一个全新的阶段。本书系统分析了这一新发展阶段的基本特点、主要任务和对策选择，涉及同时实现经济高速发展和高质量发展的必要性与可能性，自主创新中的科学自立自强与技术自立自强，国有企业的创新、民营企业的创新、国家治理能力的提升、重大理论创新与实践探索的方向等问题。读者包括相关领域的学者、学生，各类企业家（国企、民企），特别是技术密集行业的企业家、各级各类政府官员，以及其他对中国未来经济发展和技术创新的重大问题感兴趣的人员。

Chinese economic development has entered a new stage. This book systematically analyzes the basic features, major tasks, and strategic choices of this new development stage. It covers the necessity and feasibility of simultaneously achieving high-speed and high-quality economic development, scientific self-reliance and technological self-reliance in independent innovation, innovation in state-owned enterprises, innovation in private enterprises, enhancement of national governance capacity, and the direction of major theoretical innovation and practical exploration. The readers include scholars and students in relevant fields, entrepreneurs from all kinds of enterprises (both state-owned and private), especially those in technology-intensive industries, government officials at all levels, and anyone interested in critical issues related to China's future economic development and technological innovation.

About Author:

高旭东，麻省理工学院斯隆管理学院管理学博士，清华大学经济管理学院创新创业与战略系教授。研究的主要方向为公司战略、技术战略、技术能力培养。

Gao Xudong received his Ph.D. in Management from the MIT Sloan School of Management. He is a professor in the Department of Innovation, Entrepreneurship and Strategy at the School of Economics and Management, Tsinghua University. His main research directions include corporate strategy, technology strategy, and technology capability development.

中国与中东欧国家经贸合作潜力、模式与机制研究



Research on the Potential, Models, and Mechanisms of Economic and Trade Cooperation between China and Central and Eastern European Countries

作者：闫国庆、高聪、闫晗、殷军杰

Author: YAN Guoqing, GAO Cong, YAN Han, YIN Junjie

ISBN: 9787302619307

Publication Date: 2023-02-01

Page Count: 140

About the Book:

本书引入国际产业合作排序与评级体系等方法,对中国与中东欧国家产业合作的模式、机制及政策开展系统性研究;收集整理丰富、准确的中国与中东欧国家经贸合作数据及大量的相关案例,形成较为完善的大数据报告及案例库;揭示中国与中东欧国家经贸合作碰到的瓶颈背后的原因,提出破解的对策建议。本书可为政府有关部门、科研机构和相关理论工作者开展中国与中东欧国家经贸合作提供理论、数据与案例支撑,可为中国与其他区域开展“一带一路”合作提供可复制推广的样板。

This book introduces methods such as the international industry cooperation ranking and rating system to systematically study the models, mechanisms, and policies of industrial cooperation between China and Central and Eastern European countries. It collects and compiles rich and accurate data on the China-CEEC economic and trade cooperation and numerous related cases, forming a comprehensive data report and case library. It uncovers the reasons behind the bottlenecks encountered in China's economic and trade cooperation with Central and Eastern European countries and suggests countermeasures. The book can provide theoretical, data, and case support for government departments, research institutions, and relevant theoretical researchers engaged in the China-CEEC economic and trade cooperation. Meanwhile, it offers a replicable model for China's cooperation with other regions involved in the Belt and Road initiative.

About Author:

闫国庆,教授,博士,美国加利福尼亚州立大学MBA,《中国—中东欧博览与合作》杂志主编。

Dr. Yan Guoqing is a professor and received his MBA from California State University. He is the Editor-in-Chief of China-CEEC Expo and Cooperation magazine.

中国创业观察：创业活动的结构分析



China Entrepreneurship Monitoring: Structural Analysis of Entrepreneurial Activities

作者：高建 等

Author: GAO Jian et al.

ISBN: 9787302621973

Publication Date: 2022/12/1

Page Count: 340

About the Book:

本书是基于2001—2020年全球创业观察中国研究收集的成人创业调查数据、专家访谈数据和中国的创业活动数据，对中国创业活动进行的结构分析。本书把创业活动的结构细分为特征结构、质量结构、区域结构、国际多边结构和创业环境五个方面。通过对创业活动的结构分析，我们可以深化对创业者和创业活动的动机、行为、过程、影响因素、成效和政策的认识，激发系统思考和探索更有意义的理论和实践问题，助力创业活动的高质量发展。

This book is a structural analysis of entrepreneurship activities in China based on the data collected from adult entrepreneurship surveys, expert interviews, and entrepreneurship activities in China collected by the Global Entrepreneurship Monitor China from 2001 to 2020. The book subdivides the structure of entrepreneurship activities into five segments: characteristic structure, quality structure, regional structure, international multilateral structure, and entrepreneurship environment. Through the structural analysis of entrepreneurship activities, we can deepen our understanding of the motivations of entrepreneurs and entrepreneurial activities, behaviors, process, influencing factors, outcomes, and policies. This will stimulate systematic thinking and exploration of more meaningful theoretical and practical questions, contribute to the high-quality development of entrepreneurship activities.

About Author:

高建，清华大学经济管理学院教授，清华大学二十国集团（G20）创业研究中心主任。

Gao Jian is a professor at the School of Economics and Management, Tsinghua University, Director of the Entrepreneurship Research Center on G20 Economies, Tsinghua University.

党家村的商业生活与底层逻辑

Commercial Life and Underlying Logic in Dangjia Village



作者：黄德海 刘国菊

Author: HUANG Dehai, LIU Guoju

ISBN: 9787302641056

Publication Date: 2023/7/1

Page Count: 222

About the Book:

党家村是中国乡土社会的一个基本细胞，值得重视并深入研究，尤其是在国家大力推进“乡村振兴”战略的背景下，党家村社会形态的演进又迈入了新阶段。对于生活在其间的每一位村民来说，过去的商业经验虽已是历史，但在推进社会主义新农村建设的进程中又焕发出新生机。本书以经济史学视角，把党家村商业历史变迁的全过程放在中国社会演进的大背景下来考察，既有新发现的史料和访谈记录，又有新的社会观察。试图透过新挖掘的历史信息，揭示过去被忽视的商业经验和文化精髓，为当代乡村振兴战略的实施提供历史经验借鉴。

Dangjia Village is a basic cell of China's rural society, worthy of attention and in-depth study, especially in the context of China's vigorous promotion of the "rural revitalization" strategy, the evolution of the social form of Dangjia Village has entered a new stage. For every villager living in it, although the past business experience is history, it has been revitalized in the process of promoting the construction of a new socialist countryside. From the perspective of economic historiography, this book examines the historical changes in commerce of Dangjia Village, with newly discovered historical materials and interview records, as well as new social observations. Through the newly mined historical information, it attempts to reveal some business experience and cultural essence that have been neglected in the past.

About Author:

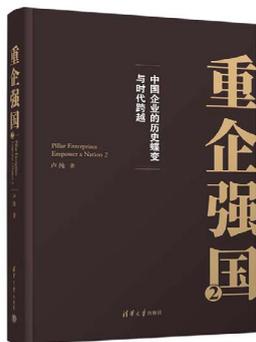
黄德海，清华大学社会科学学院副教授，长期从事传统村落文化保护与开发研究。

Huang Dehai, associate professor of School of Social Sciences, Tsinghua University, and has long been engaged in the protection and research of traditional village culture.

刘国菊，北京化工大学科学技术与社会研究所副教授，长期从事明清商业史、中国近现代史基本问题研究。

Liu Guoju, associate professor at the Institute of Science, Technology and Society of Beijing University of Chemical Technology, and has long been engaged in the research of basic issues in the commercial history of the Ming and Qing dynasties and modern Chinese history.

重企强国2



Pillar Enterprises Empower a Nation

作者：卢纯

Author: LU Chun

ISBN: 9787302620020

Publication Date: 2022/11/1

Page Count: 416

About the Book:

本书以中国企业为窗口，通过总结中国企业的百年跨越式发展成就、主要特征和重要经验，得出中国企业已经实现整体性蝶变的结论。同时，通过分析中国企业当下眺所面临的挑战、机遇，提出中国企业要加快实现新的蝶变，提出中国企业从大到强大的战略路径，探讨中国企业在共产执政的新百年所要承担的新使命、新责任、新目标。本书以中国企业作为切入点去解读中国百年蝶变与跨越，去感知国家发展富强的强劲脉动，感受民族走向复兴的坚定步伐。

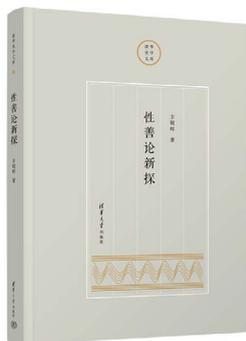
With Chinese enterprises as a window, this book summarizes their leapfrog developmental achievements over the century, key characteristics, and imperative experiences. It concludes that Chinese enterprises have undergone a comprehensive transformation. Meanwhile, by analyzing the challenges and opportunities currently faced by these enterprises, it proposes that Chinese enterprises should accelerate their new transformation and suggests a strategic path for them to grow from big to strong. It explores the new missions, responsibilities, and goals of Chinese enterprises in the new century under the leadership of the Communist Party of China. It interprets China's century-spanning transition and its leap forward with Chinese enterprises as the starting point. It reflects upon the marvelous achievements of the CPC's century-long struggle, senses the vigorous national development and prosperity, and experiences the resolute pace of the nation's rejuvenation.

About Author:

卢纯，曾任中国长江三峡集团董事长。著有《重企强国》。

Lu Chun served as President of the China Three Gorges Corporation. He is the author of the book *Pillar Enterprises Empower a Nation*.

性善论新探



A New Exploration of the Theory of the Original Goodness of Human Nature

方朝晖

Author: FANG Zhaohui

ISBN: 9787302617877

Publication Date: 2022/10/1

Page Count: 364

About the Book:

人性问题是人类思想史上的永恒主题。孟子早在2300多年前提出的性善论在此后几千年历史上引发了无数争论，不仅影响到日本、朝鲜、越南等东亚国家，也在20世纪西方学界产生了广泛影响。本书在全面研究中国、日本、朝鲜（韩国）及欧美国家有关孟子性善论的各种观点的基础上，对孟子性善论进行了新的阐释，在如何理解古人人性概念的含义，为何可以从成长法则的角度看性善论，以及两千多年来各种西方人性学说的主要问题及争论焦点上均提出了新见。

The issue of human nature is an eternal theme in the history of human thought. Mencius' proposition of the original goodness of human nature was proposed over 2,300 years ago and has sparked countless debates throughout history. It has not only impacted East Asian countries such as Japan, Korea, and Vietnam but also had a vast influence on Western academic circles in the 20th century. Building upon a comprehensive study of various viewpoints on Mencius' theory of the original goodness of human nature from China, Japan, Korea (South Korea), and Western countries, this book offers a new interpretation of this theory of Mencius'. It provides new insights into understanding the concept of human nature as perceived by the ancients, how the theory of original goodness of human nature can be viewed from the perspective of the law of growth, and the main issues and debates surrounding Western theories of human nature over the past two millennia.

About Author:

方朝晖，清华大学人文学院院长聘教授。专攻领域为中国思想史、中西思想比较等。

Fang Zhaohui is a tenured professor at the School of Humanities, Tsinghua University. He specializes in fields such as Chinese intellectual history and Sino-Western thought comparison.

基督教与儒家——宗教性生存伦理的两种范型



Christianity and Confucianism Two Paradigms of Religious Existential Ethics

作者：田薇

Author: TIAN Wei

ISBN: 9787302613978

Publication Date: 2022/8/1

Page Count: 230

About the Book:

本书以基督教和儒家为研究对象,在形而上学的层面上将二者作为两种“范型”纳入“宗教性生存伦理”的框架内,视为“同”一种宗教性生存伦理,又具有各自“不同”的思路和模式。“宗教性生存伦理”的观念指向以终极性为根据、以超越性为取向的人类普遍性本源性的价值生存秩序。以此为观念视阈,本书立足于基督教《圣经》及其现代神学的发展,依据儒家“四书”兼及其他思想文本,重新阐释了一系列基本而重要的话题:基督教的上帝观和儒家的天命观、基督教的罪性论和儒家的善性论、基督教的他力救赎论和儒家的自力修养论、基督教的神爱观和儒家的仁爱观、基督教的永生盼望和儒家的不朽追求。

With Christianity and Confucianism as its subjects, this book integrates them as two “paradigms” into the framework of “religious existential ethics” at the metaphysical level, viewing them as a kind of “religious existential ethics” but with “different” thoughts and models. The concept of “religious existential ethics” points to a universal and fundamental value-based existential order grounded on ultimacy and oriented towards transcendence. Based on the development of the Christian Bible and modern theology as well as the “Four Books” of Confucianism and other ideology texts, this book reinterprets some basic but central topics: God in Christianity and destiny in Confucianism, sin in Christianity and goodness in Confucianism, salvation through others in Christianity and self-cultivation in Confucianism, God’s love in Christianity and benevolence in Confucianism, the hope of eternal life in Christianity and the pursuit of immortality in Confucianism.

About Author:

田薇, 哲学博士, 清华大学人文学院哲学系教授。研究领域为哲学与宗教。

Tian Wei, Ph.D. in Philosophy, is a professor in the Department of Philosophy, School of Humanities, Tsinghua University. Her research focuses on philosophy and religion.

王玖兴文集



Collections of Wang Jiuxing

作者：王玖兴 著 崔唯航 编

Written by WANG Jiuxing, Edited by CUI Weihang

ISBN: 9787302592648

Publication Date: 2022/6/1

Page Count: 535

About the Book:

本书是著名学者王玖兴先生一生哲学探索的结晶之作，系王先生去世后受家属委托选编而成。本书收纳的文字横跨近半个世纪，从内容上看，全面反映了王玖兴先生的学术思想，囊括了从柏拉图到海德格尔的整个西方哲学思想的发展历史。从形式上看，既有作者参加国际学术会议的学术论文，也有作者在上世纪40年代在清华大学哲学系授课时的讲稿，还有作者在中国社会科学院哲学研究所等科研机构的讲演稿等。

This book is a masterpiece of the renowned scholar Wang Jiuxing's lifelong philosophical exploration and was compiled after his passing at the request of his family. The collected writings span nearly half a century and, in terms of content, comprehensively reflect Mr. Wang Jiuxing's academic thoughts, encompassing the entire development history of Western philosophical thought from Plato to Heidegger. Form-wise, there are academic papers the author presented at international academic conferences, lecture notes from when he taught at the Department of Philosophy, Tsinghua University, in the 1940s, as well as speeches he delivered at research institutions such as the Institute of Philosophy, CASS.

About Author:

王玖兴（1916—2003），著名西方哲学史专家、翻译家，中国社会科学院哲学研究所研究员，学术专长是德国古典哲学，其治学特点是翻译与研究相结合。

Wang Jiuxing (1916–2003) was a renowned expert in Western history of philosophy and a translator. He was a researcher at the Institute of Philosophy, Chinese Academy of Social Sciences and his academic expertise lied in German classical philosophy, with an emphasis on the combination of translation and research.

超越对立：中国气候变化政策的学习理论研究



Beyond Opposition: Research on China's Climate Policy from the Perspective of Learning Theory

作者：翟大宇

Author: ZHAI Dayu

ISBN: 9787302626237

Publication Date: 2022/12/1

Page Count: 185

About the Book:

本书为北京市习近平新时代中国特色社会主义思想研究中心“习近平外交思想中关于气候外交重要论述研究”项目成果。气候变化是百年未有之大变局的一部分，中华文明理应为人类做出较大贡献。本书建立了国家学习的层次和国家学习的主动性两个维度的国家学习模型，解释不同阶段中国气候政策的变化过程；围绕全球气候治理机制和中国气候政策演进汇集丰富的资料，反映全球气候治理体系和中国国内气候政策的发展变化过程。

This book is the outcome of the project “Research on Important Discourses on Climate Diplomacy in Xi Jinping’s Thought on Diplomacy” conducted by the Research Center for Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era in Beijing. Climate change is part of the profound changes unseen in a century, and Chinese civilization should make greater contributions to humanity. This book establishes a national learning model with two dimensions, the level of national learning and the proactiveness of national learning, to explain the changing process of China’s climate policies at different stages. Focusing on the global climate governance mechanism and the evolution of China’s climate policies, the book gathers rich materials to reflect the development and changes of the global climate governance system and China’s domestic climate policies.

About Author:

翟大宇，博士，对外经贸大学讲师。

Dr. Zhai Dayu is a lecturer and graduate supervisor at the University of International Business and Economics.

危机决策的直觉优势效应：无注意视盲与内隐记忆的作用

Advantage Effect of Intuition in Crisis Decision: Inattentional Blindness and Implicit Memory Exert the Important Role



作者：石垠

Author: SHI Yin

ISBN: 9787302609629

Publication Date: 2022/8/1

Page Count: 180

About the Book:

本书以内隐记忆和无注意视盲为切入点，探讨它们是如何在危机决策中帮助直觉发挥其优势作用的。主要的研究问题为：人们是否在危机感知下更倾向于直觉决策；危机感知是如何激活直觉决策过程的；无注意视盲和内隐记忆在这个过程中发挥了怎样的作用；它们在直觉决策过程中又是如何相互关联的；通过多种研究范式和分析方法最终构建危机感知下更具解释效力的直觉决策模型。本书通过将危机情境与危机感知相剥离，对危机情境下人们的心理反应过程进行了深入系统的探讨，为人们如何在危机情境中做出有效决策提供了重要依据。

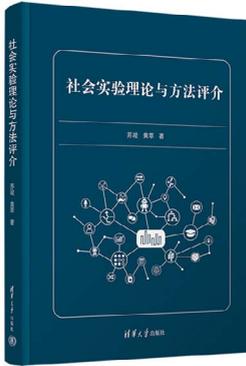
With implicit memory and inattentional blindness as entry points, this book explores how these two help intuition play its advantageous role in crisis decision-making. The primary research questions are: whether people are more inclined toward intuitive decision-making when they perceive crisis; how crisis perception activates the process of intuitive decision-making; what are the roles of inattentional blindness and implicit memory in this process; how they are interconnected in the intuitive decision-making process; and how to construct an intuitive decision-making model that can explain things better under crisis perception through various research paradigms and analytical methods. By isolating crisis situations from crisis perception, this book systematically delves into people's psychological response process in crisis, providing an essential basis for understanding how people make effective decisions in crisis.

About Author:

石垠，博士，北京师范大学讲师。

Dr. Shi Yin is a lecturer at Beijing Normal University.

社会实验理论与方法评介



A Review of Social Experimentation Theory and Methods

作者：苏竣、黄萃

Author: SU Jun, HUANG Cui

ISBN: 9787302620488

Publication Date: 2023/7/1

Page Count: 377

About the Book:

本书立足社会实验作为一种共性方法论的普遍意义,在回顾社会实验理论缘起、发展脉络和经典案例的基础上,系统介绍自然实验、实地实验、调查实验和计算实验四类经典方法,探讨社会实验与形式建模、质性调查和真实世界研究等方法的组合路径,从宏观实验设计、中观流程管理和微观心理机制三个层面分析可能影响社会实验效果的潜在因素。还简要介绍了双重差分、断点回归、匹配、合成控制、结构方程模型等常用的数理分析技术并给出示例。

Grounded in the universal significance of social experiments as a common methodology, this book reviews the origins, development processes, and classic cases of social experiments. On this basis, it systematically introduces four types of classical methods, which are natural experiments, field experiments, surveys, and computational experiments. It explores the combined paths of social experiments with methods such as formal modeling, qualitative investigation, and real-world research, analyzing potential factors that may influence the effectiveness of social experiments from three levels of macro experimental design, meso process management, and micro psychological mechanisms. In addition, it briefly introduces commonly used mathematical and statistical analysis techniques, such as difference-in-differences, regression discontinuity, matching, synthetic control, and structural equation model, and provides examples.

About Author:

苏竣, 清华大学公共管理学院教授, 清华大学智能社会治理研究院院长。

Su Jun is a professor at the School of Public Policy & Management, as well as the Director of the Institute for AI International Governance at Tsinghua University.

序与数：数概念的形成与演变

Sequences and Numbers: The Formation and Evolution of the Concept of Number



作者：冯琦

Author: FENG Qi

ISBN: 9787302632023

Publication Date: 2023/6/1

Page Count: 330

About the Book:

本书是数学哲学方面的一本论著，涉及有关自然数的本体论和认识论的基本问题。本书试图从自然界的序现象出发，结合我国古代先人应用序的智慧，阐明这种几乎无处不在的“序结构”如同到处可见的“几何结构”一样，是人类一种来自生活经验的认识之源，有关自然数及其运算律的认识也和有关几何知识的认识一样来源于对客观世界的感知。本书试图以严格的数学方式来论证自然数这一概念从其依赖的本源到抽象独立出来，成为柏拉图所说的“永恒之物”的自然和典型的思维路径。

This book is a treatise in mathematical philosophy, addressing fundamental ontological and epistemological issues related to natural numbers. Starting from the phenomenon of order in the natural world and integrating the wisdom of ancient Chinese predecessors in applying order, this book attempts to illustrate how this almost ubiquitous “ordered structure” is the source of human understanding derived from life experiences like the widely seen “geometric structure.” It argues that the understanding of natural numbers and their arithmetic principles, also like the understanding of geometric knowledge, stems from the perception of the objective world. The book strives to use rigorous mathematical methods to demonstrate the natural and typical path of the concept of natural numbers to be abstractly divorced from the original source it relies on to become what Plato referred to as “eternity”.

About Author:

冯琦，曾任清华大学数学系教授，研究领域为数理逻辑、集合论。

Feng Qi was a professor in the Department of Mathematical Sciences, Tsinghua University. His research fields include mathematical logic and set theory.

电子商务学



E-commerce

作者: 覃征

Author: QIN Zheng

ISBN: 9787302611424

Publication Date: 2022/7/1

Page Count: 500

About the Book:

本书以数理分析的形式抽象定义电子商务基础知识、模型和原理,从数学模型的角度分析电子商务的基本理论,使得读者对电子商务的内涵与外延形成抽象认知。本书将理论研究与工程研究相结合,将基础知识与应用研究相结合,将过程知识与管理应用相结合,以背景为引导、以基础为铺垫、以模型为核心、以体系结构为支撑、以原理为纲目、以案例为融合,形成体系化、过程化、案例化的“电子商务学”理论体系。

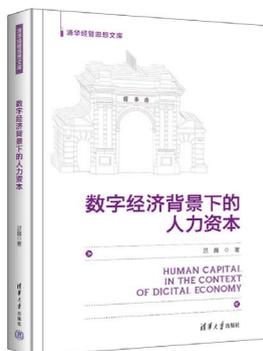
This book abstracts the basic knowledge, models and principles of e-commerce in the form of mathematical analysis, and analyzes the basic theory of e-commerce from the perspective of mathematical model, so that readers can form an abstract cognition of the connotation and extension of e-commerce. The author combines theoretical research with engineering research, combines basic knowledge with applied research, and combines process knowledge with management application. It takes background as guidance, foundation as bedding, model as core, system structure as support, principle as schema and case as integration, forming a systematic, procedural and case-based theoretical system of "electronic commerce".

About Author:

覃征,清华大学教授,北京市教学名师。

Qin Zheng is a professor at Tsinghua University. He is the recipient of the 7th Beijing Higher Education Outstanding Teacher Award.

数字经济背景下的人力资本



Human Capital in the Context of Digital Economy

作者：迟巍

Author: CHI Wei

ISBN: 9787302618898

Publication Date: 2022/10/1

Page Count: 215

About the Book:

数字经济蓬勃发展，数字化转型成为行业趋势，就业市场对数字人才和数字技能的需求空前高涨。作为人力资本的一种新兴形式，数字技能与以往人力资本有何关联、有何不同之处？本书前四章全面梳理了人力资本内涵的演变和数字化人力资本的出现。在当前数字经济背景下，哪种数字技能的就业机会更多并且回报更高？本书第五、第六章利用北京、上海、深圳就业市场数据试图回答这些问题，发现就业市场对数字技能需求的总体情况、对不同类型的数字技能的需求，以及对应的收入水平。

With the booming development of the digital economy, digital transformation has become an industry trend, and the demand for digital talents and skills in the job market is at an all-time high. As an emerging form of human capital, how are digital skills related to traditional human capital, and what are their differences? The first four chapters of this book review the evolution of the connotation of human capital and the emergence of digital human capital. In a digital economy, what types of digital skills offer more employment opportunities and bring higher returns? Chapters five and six attempt to answer these questions using employment data from Beijing, Shanghai, and Shenzhen, revealing the overall demand for digital skills in the job market, the demand for different types of digital skills, and corresponding income levels.

About Author:

迟巍，清华大学经济管理学院长聘副教授，讲授管理学、薪酬管理、人力资源经济学等课程。

Chi Wei is a tenured associate professor in the School of Economics and Management, Tsinghua University. She teaches courses in management, compensation management, and human resource economics.

领导和管理的时空理论



Time-Space Theory of Leadership and Management

作者: 陈国权

Author: CHEN Guoquan

ISBN: 9787302606581

Publication Date: 2022/6/1

Page Count: 184

About the Book:

本书系统地阐述了领导和管理的时空理论体系，强调领导者和管理者需要通过时间和空间两个视角，多层次、多维度 and 动态地对组织进行认识和分析、设计和决策，采取行动和举措，使组织取得良好的表现，并保持可持续的生存和健康和谐的发展。本书共8章，分别从领导和管理的时空理论的总体框架、空间层次分析、空间维度分析、时间动态分析、时空（层维动）综合分析、时空互动分析、竞争互动分析、时空成效分析，对领导和管理的时空理论进行了系统的阐述。

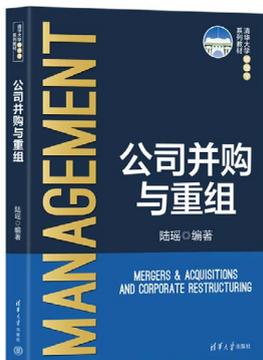
This book systematically expounds on the time-space theory of leadership and management, emphasizing that leaders and managers must understand, analyze, design, and make decisions about organizations from both temporal and spatial perspectives in a multi-level, multidimensional, and dynamic manner. They should adopt actions and measures to achieve excellent organizational performance, as well as maintain sustainable survival and healthy and harmonious development. This book consists of eight chapters, systematically elaborating on the time-space theory of leadership and management from aspects of the overall framework, spatial layer analysis, spatial dimension analysis, time dynamics analysis, spatiotemporal (layer-dimensional-dynamic) comprehensive analysis, spatiotemporal interaction analysis, competitive interaction analysis, and spatiotemporal effectiveness analysis of the theory.

About Author:

陈国权，清华大学经济管理学院讲席教授，时空领导力理论和方法体系的开创者。

Chen Guoquan serves as an endowed chair at the School of Economics and Management, Tsinghua University, and is a pioneer of time-space leadership and organizational learning theory.

公司并购与重组



Mergers & Acquisitions and Corporate Restructuring

作者：陆瑶

Author: LU Yao

ISBN: 9787302582410

Publication Date: 2022-09-01

Page Count: 200

About the Book:

并购重组是现代企业快速发展和价值提升的重要战略行为。本书将从不同层次全面介绍并购重组的动机，交易的实操过程，以及如何对并购重组交易进行科学的决策与正确的效果评估。本书通过并购动机，尽职调查，并购交易结构的设计，并购对价估值，控制权的设计与争夺，交易后整合，以及其他的企业重组方式7个章节，打造了完整的并购重组与股权投资的知识体系。本书不仅包括并购重组相关的基本理论知识，还包括一些重要经典的商业案例分析。

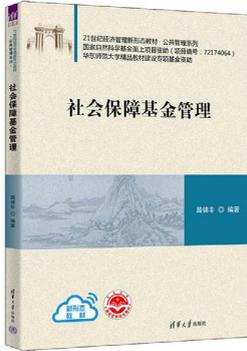
Mergers and acquisitions (M&A) are crucial strategic actions for modern enterprises to develop rapidly and enhance their values. This book comprehensively introduces M&A motivations, practical transaction processes, and how to make scientific decisions on and evaluate the outcomes of M&A transactions correctly. The book consists of seven chapters covering M&A motivations, due diligence, M&A transaction structure design, valuation of M&A consideration, control rights design and competition, post-transaction integration, and other corporate restructuring methods. Through these chapters, this book establishes a complete knowledge system of M&A and equity investment. In addition to fundamental theoretical knowledge related to M&A, the book also includes analyses of important classic business cases.

About Author:

陆瑶，清华大学经济管理学院金融系长聘教授，主要研究领域为公司金融、企业并购与重组等。

Lu Yao is a tenured professor at School of Economics and Management, Tsinghua University. Her research areas primarily include corporate finance, mergers and acquisitions and etc.

社会保障基金管理



Social Insurance Fund Management

作者: 路锦非

Author: LU Jinfei

ISBN: 9787302621164

Publication Date: 2023/1/1

Page Count: 312

About the Book:

“原理篇”着重于对社会保障制度的理论基础，紧密联合于世界各国国家和社会治理现实的学理发展轨迹。“政策篇”着重于对中国社会保障项目及相关基金的管理体系和政策进行系统的介绍，从社保基金管理的流程视角，展开基金管理的讲解。

“投资篇”着重于介绍社保基金管理中与投资相关的理论、工具和方法，介绍了基金投资管理中重要投资工具，针对社保基金的特点提炼出适合的投资策略、工具，以及投资时机判断。“监管篇”对社保基金管理中的监管问题展开梳理与讲授，包括基于博弈论的理论分析等。

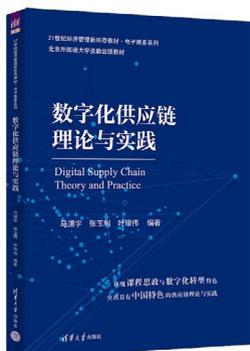
The “Principles” part focuses on the theoretical foundation of social security systems, which is closely linked to the theoretical development trajectory of national and social governance realities of countries around the world. The “Policy” part systematically introduces the management systems and policies of China’s social security projects and related funds, offering a detailed explanation of fund management from the perspective of the social security fund management process. The “Investment” part covers theories, tools, and methods related to investment in social security fund management. It presents vital investment tools in fund investment management, extracts suitable investment strategies and tools with regard to the characteristics of social security funds, and talks about how to decide if the investment timing is right. The “Regulation” part reviews and elaborates on the regulatory issues in social security fund management, including theoretical analyses based on game theory and etc.

About Author:

路锦非，经济学博士，华东师范大学经济与管理学部教授、系主任。

Lu Jinfei is a Ph.D. in Economics and a professor of the Faculty of Economics and Management, East China Normal University.

数字化供应链理论与实践



Digital Supply Chain Theory and Practice

作者: 马潇宇、张玉利、叶琼伟

Author: MA Xiaoyu, ZHANG Yuli, YE Qiongwei

ISBN: 9787302624943

Publication Date: 2323/2/1

Page Count: 300

About the Book:

本书突出理论结合实践,既详细介绍了国内外数字化供应链前沿的理论方法,又充分展现了中国特色的供应链数字化转型实践案例。在理论方面,本书系统介绍了数字化供应链的内涵、起源和发展情况,阐述了数字化供应链的四大战略价值、五大核心业务、九大赋能技术等内容,并提出了数字化供应链的实施路径和未来发展趋势。在实践方面,本书通过介绍我国离散和流程制造业中数字化供应链优秀案例,剖析了供应链数字化转型的典型过程与实际效果,分享了可借鉴的实施经验。

This book emphasizes the integration of theory and practice, not only providing a detailed introduction to the cutting-edge theoretical methods of digital supply chain both domestically and internationally, but also fully demonstrating practical cases of digital supply chain transformation with Chinese characteristics. On the theoretical side, this book systematically introduces the essence, origin, and development of digital supply chain, elaborates on the four strategic values, five core businesses, and nine empowering technologies of digital supply chain, and proposes the implementation path and future development trend of digital supply chain. On the practical side, this book analyzes the typical processes and actual effects of supply chain digital transformation by introducing excellent cases of digital supply chain in China's discrete and process manufacturing industries, and shares the implementation experience that can be drawn upon.

About Author:

马潇宇,清华大学博士,北京外国语大学副教授。

Xiaoyu Ma, Ph.D. from Tsinghua University, Associate Professor and Director of Global Technological Innovation Center in Beijing Foreign Studies University.

现代企业战略管理：思想、方法与实务（第2版）



Strategic Management of Modern Enterprises: Thought, method and practice (2nd edition)

作者：贾旭东

Author: JIA Xudong

ISBN: 9787302620563

Publication Date: 2022/11/1

Page Count: 320

About the Book:

以现代企业战略管理思想、方法和实务三大关键要素为纲，系统全面、逻辑清晰地介绍了现代企业战略管理的理论、方法与实施要点。思想篇：从战略管理基础理论出发，追溯战略思想之源，回顾战略管理理论发展历程，展望战略管理的前沿和未来，讨论战略管理主体及其战略思维问题。方法篇：凝练现有的战略分析和决策方法，形成全面、深入、操作性强的战略分析与制定方法体系。实务篇：全面讨论企业战略的实施与控制问题，对企业各层次战略的实务操作进行了全面、深入的介绍。

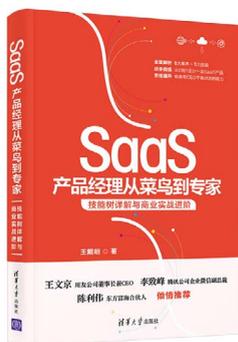
Takes thought, method and practice of modern enterprise strategic management as the key link, introduces theory, method and implementation points of modern enterprise strategic management systematically. Thought section: Starts from the basic theory of strategic management, this section traces the source of strategic thought, reviews the development process of strategic management theory, looks forward to the frontier and future of strategic management, discusses the subject of strategic management and its strategic thinking. Method section: Summarizes the existing methods of strategic analysis and decision-making, creates comprehensive, in-depth and exercisable system of strategic analysis and decision-making system of strategic analysis and formulation. Practice section: Discusses the implementation and control of enterprise strategy comprehensively, and introduces the practical operation of enterprise strategy at all levels.

About Author:

贾旭东，兰州大学教授，德国莱比锡商学院访问学者。

Xudong Jia, Professor of Lanzhou University, Visiting scholar of Leipzig Graduate School of Management in Germany.

SaaS产品经理从菜鸟到专家：技能树详解与商业实战进阶



SaaS Product Manager from Rookie to Expert: Skills Tree Details and Real-World Business Advancement

作者：王戴明

Author: WANG Daiming

ISBN: 9787302605607

Publication Date: 2022/5/1

Page Count: 244

About the Book:

本书围绕如何成为一个优秀的 SaaS 产品经理来组织内容，理论与实践并重。第 1 章讲 SaaS 产品的发展与现状，剖析 SaaS 模式的本质，让读者对 SaaS 产品有整体和深入的认识；第 2、3 章结合作者的亲身经历讲 SaaS 产品经理所需的核心素养与技能，重点讲述培养这些能力的方法和技巧，具备较强的实操性；第 4 章带读者详细设计一款有实战意义的 SaaS 产品，让读者对从 0 到 1 规划 SaaS 产品有切身感受；优秀的 SaaS 产品经理是最接近 CEO 的人，因此第 5 章带读者了解 SaaS 战略、策略、核心竞争力以及创业陷阱等方面的知识，培养读者与 CEO 平等对话的能力。

This book revolves around how to become an excellent SaaS product manager, placing equal emphasis on theory and practice. Chapter 1 discusses the development and current status of SaaS products and analyzes the essence of the SaaS model to give readers a comprehensive and profound understanding of SaaS products; Chapters 2 and 3 cover the essential qualities and skills required for a SaaS project manager in combination with the author's personal experience, focusing on methods and techniques for developing these abilities, which are strongly practical; Chapter 4 guides readers through the detailed design of a practical SaaS product, offering them first-hand experience in planning a SaaS product from scratch; An outstanding SaaS product manager is closest to a CEO, so Chapter 5 helps readers understand SaaS strategies, tactics, core competencies, entrepreneurial pitfalls, and more, fostering readers' ability to engage in equal conversations with CEOs.

About Author:

王戴明，Oracle前产品专家，成功完成SaaS产品从0到N的建设。

Wang Daiming, former product specialist at Oracle, has successfully led the development of SaaS products from 0 to N.

走向智治时代：人工智能赋能社会治理现代化



Towards the Era of Intelligent Governance

作者：张成岗

Author: ZHANG Chenggang

ISBN: 9787302638151

Publication Date: 2023/7/1

Page Count: 248

About the Book:

本书从社会和现代性重构、新科技革命与社会治理现代化、中国传统社会的现代转型与当代社会治理的现代化布局、全球化与社会治理的西方演进脉络等维度对治理理论及实践之间的逻辑张力进行了深入诠释；在明确了科技发展与社会治理历史交汇的时代坐标基础上，进一步对新科技革命带来的社会治理新议题进行了专题研究；在“善治”与“善智”等的多重逻辑关系的辨析中指明了构建人工智能社会治理体系的未来之路。作者在书中对人工智能时代的社会治理现代化的思考，紧密结合自身实践，十分难得。

This book profoundly interprets the logical tensions between governance theory and practice from dimensions such as social and modernity reconstruction, new technological revolution and modernization of social governance, the modern transformation of traditional Chinese society and the modern layout of contemporary social governance, and the Western evolutionary context of globalization and social governance. After defining the historical intersection of technological development and social governance, it further conducts specialized research on new social governance topics brought about by the latest technological revolution. Through analyzing multiple logical relationships such as “Learn About Governance” and “Learn About Intelligence,” the book clarifies the future path of constructing an AI social governance system. In this book, the author’s thoughts on the modernization of social governance in the era of AI are closely combined with his practical experience, which is truly invaluable.

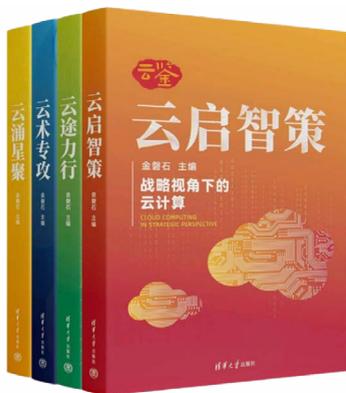
About Author:

张成岗，清华大学社会学系教授，主要从事社会治理与政策、风险灾害研究等领域教学和研究工作。

Zhang Chenggang is a professor at the School of Social Sciences, Tsinghua University. He is mainly engaged in teaching and research in social governance and policy and risk and disaster research.

“云鉴”丛书

"Cloud Reference" Series



作者: 金磐石

Author: JIN Panshi

ISBN: 9787302633846

9787302639022

9787302638742

9787302639404

Publication Date: 2023/8/1

Page Count: 0

About the Book:

“鉴”古字写作“监”，“监”始见于甲骨文，大约到春秋时加“金”旁成为“鉴”，意为映照的工具，类似于后来的镜子，引申为可作为参考、评价的事物，该字符合本书旨在成为行业的参考标准和最佳实践的撰写目标，故本书命名为《云鉴》。丛书分为四卷，分别是《云启智策》、《云术专攻》、《云途力行》和《云涌星聚》，覆盖了云计算战略的规划与执行、数据中心建设与运营、云计算和相关技术应用与实践，以及数字化场景的案例解析等。

The ancient character “鉴” was initially written as “监.” “监” was first seen in the oracle bone script and later evolved into “鉴” by adding the “金” radical (which signifies metal) during the Spring and Autumn period. It originally meant a tool for reflection, a prototype of mirror. It means reference and can be used interpreted as reference or evaluation criteria. This character aligns with this book’s goal to become a standard and best practice guide. Therefore, the series is titled “云鉴” (Cloud Reference). This series consists of four volumes, namely, Cloud Computing in Strategic Perspective, Cloud Computing Technology and Product Research, Green Low-Carbon Digital Infrastructure, and Integration of Cloud Technology and Intelligent Scenarios, covering the strategy planning and execution of cloud computing, the construction and operation of data centers, applications and practices of cloud computing and related technology, as well as case analyses of digital scenarios.

About Author:

金磐石，中国建设银行首席信息官，在科技治理体系构建、IT系统架构设计等方面具有丰富经验。

Jin Panshi is the Chief Information Officer of China Construction Bank. He possesses extensive experience in constructing technology governance systems, and designing IT system architecture.

数字战略——“十四五”期间数字经济新模式



Digital Strategy: New Model of Digital Economy in the 14th Five-Year Plan

作者: 李全

Author: LI Quan

ISBN: 9787302620761

Publication Date: 2022/12/1

Page Count: 282

About the Book:

本书以数字经济在中国的发展为背景,介绍了数字经济从学术研究到产业应用各阶段的发展现状及趋势,并以数字经济与产业融合的发展趋势为基础,分析了包括在线经济、产业数字化转型、数字化共享、数字货币等社会经济发展中的重要议题,分析论述了数字经济发展的十五种新模式对产业转型升级的促进路径,以便于来自于政府管理部门、产业经营者、以及在校学生对相关领域的理解和有效运用。本书紧跟国家“十四五”规划的核心思路来展开论述,清晰地论述了数字经济推动产业转型的新模式。

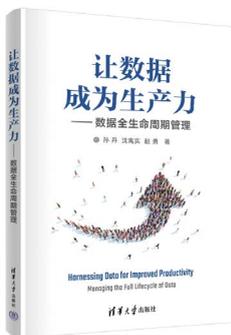
With the development of the digital economy in China as its background, the book introduces the current development status and trends in various stages of the digital economy, from academic research to industrial application. In the meantime, based on the development trend of the integration between the digital economy and industries, it analyzes critical topics in social and economic development, including the online economy, industrial digital transformation, digital sharing, and digital currency. The book also explains and discusses fifteen new models of digital economic development that drive industrial transformation and upgrading so that government management personnel, industry operators, and students can understand and effectively utilize related fields. The book closely follows the core ideas of the national “14th Five-Year Plan” to expound on the new models of digital economy driving industrial transformation.

About Author:

李全,南开大学金融学教授,联储证券董事兼首席经济学家。

Li Quan is a professor of finance at Nankai University and a Chinese Expert of the Asian Development Bank, Director and Chief Economist of LC Securities.

让数据成为生产力——数据全生命周期管理



Harnessing Data for Improved Productivity: Managing the Full Lifecycle of Data

作者：孙丹、沈寓实、赵勇

Author: SUN Dan, SHEN Yushi, ZHAO Yong

ISBN: 9787302630777

Publication Date: 2023/4/1

Page Count: 270

About the Book:

本书从数据的基础认知、数据圈的诞生和发展以及数据蕴含的未来等角度开始谈起，进一步讨论了数据全生命周期管理的核心节点，以及企业数据应用和管理的难点与重点，全面阐释了什么是数据、数据的应用以及数据的未来等内容。通过本书，读者可以感受到数据开启的美好新时代，也可以预期在各行各业中，数据拥有将不可能变为可能的超能力。全书共9章。第1章为基础章节，着重介绍了数据基本认知，包括数据起源、概念以及不断膨胀的数据圈；第2章对数据的不同类型、数据来源以及数据的创建位置等进行了深入介绍；第3章对于当前的数据以及数据的未来进行了分析和探讨；第4~9章重点着墨于数据的应用，介绍了数据全生命周期管理。

From the perspectives of the basic understanding of data, the birth and growth of the data circle, and the future data will bring, this book discusses the core nodes of the data life cycle management, as well as the challenges and focuses of the corporate data application and management. The book comprehensively explains what data is, the application of data, the future of data, and so on. The book consists of nine chapters. Chapter 1 is foundational, introducing the basic understanding of data, including its origins, concepts, and the ever-expanding data ecosystem. Chapter 2 delves into different types of data, data sources, and where data is generated. Chapter 3 analyzes and discusses the current state of data and its future. Chapters 4 to 9 focus on data application, demonstrating various aspects of data lifecycle management.

About Author:

孙丹，现任希捷科技全球高级副总裁暨中国区总裁。

Sun Dan, currently Global Senior Vice President and China President of Seagate Technology.

黑镜与秩序——数智化风险社会下的人工智能伦理与治理

Black Mirror And Order: AI Ethics and Governance In A Digital Risk Society

作者: 刘志毅

Author: LIU Zhiyi

ISBN: 9787302605317

Publication Date: 2022/8/1

Page Count: 324

About the Book:

本书从现代科技伦理的隐喻“黑镜”出发，系统而深入地剖析全球人工智能伦理与治理发展的理论根源、人工智能落地应用场景中的伦理问题以及全球视野下的人工智能治理问题。书中既包括对传统西方伦理学的形而上学的研究，也包括人工智能有关实践案例和国际政策的解读。本书的目的不仅仅是对人工智能伦理和治理问题进行学术性梳理，而更在于寻求解决真实世界中人工智能伦理与治理问题的路径，是一部在理论和实践层面都非常有意义的专著。

Starting from the metaphor of “Black Mirror” in modern technological ethics, this book systematically and profoundly analyzes the theoretical origins of global AI ethics and governance development, ethical issues in AI application scenarios, and AI governance issues from the global perspective. The book encompasses research on metaphysics in traditional Western ethics as well as interpretations of AI-related practical cases and international policies. This book goes beyond the academic exploration of AI ethics and governance issues. Moreover, it seeks to find paths for addressing real-world challenges in AI ethics and governance. It is a monograph of paramount significance in both theoretical and practical terms.

About Author:

刘志毅，数字经济学家，现为同济大学人工智能与区块链实验室（AIBI）研究员，主要研究领域包括人工智能、智能经济以及数字经济学等。

Liu Zhiyi is a digital economist, currently a researcher at the Artificial Intelligence & Blockchain Intelligence (AIBI) of Tongji University. His main research areas include artificial intelligence, intelligent economy, and digital economics.

十二公民



12 Citizens

作者：李玉娇、徐昂、韩景龙

Author: LI Yujiao, XU Ang, HAN Jinglong

ISBN: 9787302375081

Publication Date: 2022/1/1

Page Count: 152

About the Book:

“枪毙！还是不应该枪毙？”12位陪审员对一桩弑父案进行着激烈讨论。这是一桩新闻里案件。模拟法庭中的12位真实的陪审员，他们的身份有富商、出租车司机、孤寡老人、教师、检察长等，对于“有罪”还是“无罪”，身处不同的阶级环境，他们分别给出不同的社会价值观的判决。他们在审判一个初涉世事的孩子，也在审判着他们自己。

"Sentence to death!", "Not guilty!" twelve jurors furiously debate on a news of a young boy accused of killing his birth father. The jurors in the mock court conclude taxi-driver, millionaire, lonely elder, teacher, procurator and so on. Different class backgrounds and social values tempt them to give different judgments against the young suspect, also themselves.

About Author:

徐昂，导演、编剧、演员。现就职于北京人民艺术剧院。

李玉娇，中国作家协会会员，辽宁省人民检察院办公室主任。

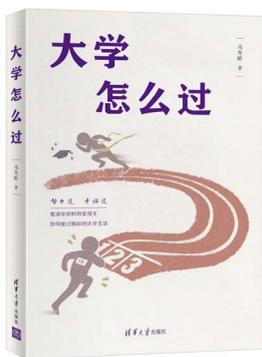
韩景龙，小说《医生杜明》被封为中国版的《沉默的羔羊》。

Xu Ang is a director, screenwriter, and actor. He works at the Beijing People's Art Theatre.

Li Yujiao is a member of the China Writers Association and holds the position of Director of the Office at the People's Procuratorate of Liaoning Province.

Han Jinglong is a novelist and film screenwriter. His novel "Doctor Du Ming" has been hailed as the Chinese version of "The Silence of the Lambs."

大学怎么过



How to Fulfill College Life

作者：马冬昕

Author: MA Dongxin

ISBN: 9787302642022

Publication Date: 2023/9/1

Page Count: 280

About the Book:

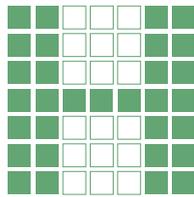
进入大学，面对人生的新阶段、周围的新环境，如何快速适应，开启精彩的大学生活，规划未来的发展？面对种类多、内容深、难度大的课程，如何把握精髓、高效学习？面对社团活动、志愿服务、实习实践，如何科学选择、合理安排，互相促进？面对学业、科研压力，如何调节心态，保持一颗平常心，做个快乐读书人？本书作者既是清华优秀学子，掌握行之有效的时间管理、学习科研方法，又是资深学业咨询师，提出独到的、系统的、科学的方法。

As high school and college entrance examination have folded into the past, college life is approaching in sequence. Hopping into a new stage of life and a completely unfamiliar environment, how can you accommodate yourself and initiate your wonderful college life in a short time? Challenged by a vast amount of academic courses with complexity, abstruseness and variety, how can you rapidly and effectively grasp the core content and win the credits with satisfactory marks? Attracted simultaneously by club activity, volunteering service and professional internship, how can you make a right choice and achieve the balance among academic study, personal interest and future career preparation? Surrounded by the intense pressure from academic study and scientific research, how can you tune the mindset well and preserve a delight and positive mental altitude? As an outstanding graduate of Tsinghua University and an experienced academic consultant, the author is well skilled in a series of accessible and practical methods on effective time management.

About Author:

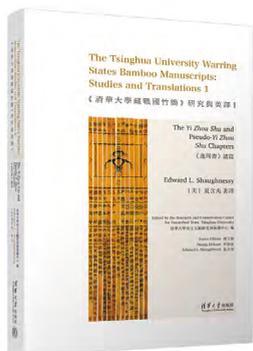
马冬昕，清华大学化学系助理教授，读书期间曾两次获得清华学子最高荣誉——特等奖学金，2022年入选TR35中国区榜单。

MA Dongxin is an assistant professor of Department of Chemistry at Tsinghua University, as well as an awardee of MIT Technology Review Innovators Under 35 (TR35), China, 2022.



历史 文化 艺术 建筑
History, Culture, Arts and
Architecture

《清华大学藏战国竹简》研究与英译1：《逸周书》诸篇（英文版）



The Tsinghua University Warring States Bamboo Manuscripts: Studies and Translations 1

The Yi Zhou Shu and Pseudo-Yi Zhou Shu Chapters

作者：清华大学出土文献研究与保护中心 编、

（美）夏含夷（Edward L. Shaughnessy）著译

Author: Compiled by Research and Conservation Center for Unearthed Texts, Tsinghua University, written and translated by Edward L. Shaughnessy

ISBN: 9787302601876

Publication Date: 2023/3/1

Page Count: 355

About the Book:

2008年7月，清华大学从境外抢救入藏了一批战国时期竹简，即“清华简”，内容多为早期的经史类典籍，除了可与《尚书》等传世古书对照的篇目外，更有大量失传两千年之久的前所未见的佚篇，对于准确认识先秦古籍的原貌、重建中国早期历史均有重要学术价值。清华简所带来的新知识、对传统文化认识的更新，已引起海内外学术界以及社会各界的广泛关注，对中华优秀传统文化的传承传播与创新性发展具有重要意义。本卷的主要内容是对清华简中见于《逸周书》或与之体裁相近篇目的英译及背景知识介绍，同时对《逸周书》文本流传情况提供了见解。主要读者为从事早期中国研究的学者以及对中国古代文明有兴趣的一般读者。

In July 2008, Tsinghua University rescued a collection of Warring States period bamboo manuscripts from abroad, known as the “Tsinghua bamboo manuscripts.” These bamboo manuscripts contain mostly early classics. In addition to texts comparable with ancient classics that have been passed down, like *The Most Venerable Book* (*Shang Shu*), there are numerous lost writings that have been unseen for over two thousand years. They hold significant academic value for gaining a more accurate understanding of pre-Qin ancient classics and reconstructing China’s early history. The new knowledge brought by the Tsinghua bamboo manuscripts and the renewed comprehension of traditional culture have garnered extensive attention from academia and society worldwide and is of paramount importance for the inheritance, dissemination, and innovative development of outstanding traditional Chinese culture. This volume’s main content is the English translation and background introduction of passages from the Tsinghua bamboo manuscripts that are related to or similar in style to the *Lost Book of Zhou* (*Yi Zhou Shu*), while also providing insights into the transmission of the *Lost Book of Zhou* text. The primary readers of this book are scholars engaged in the studies of early China and general readers interested in ancient Chinese civilization.

About Author:

清华大学出土文献研究与保护中心是国内外出土文献研究与保护工作重镇。（美）夏含夷，芝加哥大学教授。

Research and Conservation Center for Unearthed Texts, Tsinghua University, is a significant hub for the study and preservation of unearthed texts both domestically and internationally. (US) Edward L. Shaughnessy is a professor at the University of Chicago.

清华有礼：《仪礼》复原研究工作纪事

Revitalizing Chinese Classical Rituals: A Modern Attempt at Tsinghua University



作者：张涛

Author: ZHANG Tao

ISBN: 9787302589709

Publication Date: 2022/11/1

Page Count: 388

About the Book:

什么是礼？古人怎样成年？怎样结婚？古人一揖一让之间，有着怎样的情怀与奥义？三千年前的先贤制礼作乐，为中华儿女留下了一笔宝贵的财富，让今天的我们仍能自豪地宣称，中国是举世闻名的礼仪之邦。如何才能真正地理解、继承、身体力行、发扬光大这一切？清华大学师生在这方面走出了一条艰辛而又不失荣耀的道路。

本书是对清华大学《仪礼》复原工作的阶段性总结，内容涉及经学、历史、考古、音乐、创意媒体技术等领域。从出土的竹简、古旧的线装书中搜寻出一条条研究线索，应用动作追踪与绿幕拍摄技术，再到3D建模，力争实现高科技与传统文化的完美结合。打通课堂教学与社会实践，从手工作坊到影棚现场，都留下了清华师生扎实稳健的身影。

What is ritual? How did child grow to adulthood in ancients times? How did they get married? What were the feelings and meanings of the ancient Chinese rituals? Three thousand years ago, the Chinese sages made rituals and music, leaving behind a valuable treasure for the successors, so that today Chinese people can still proudly claim that China is a world-renowned state of ritual and etiquette. How can people truly understand, inherit, practise and carry forward all the Chinese rituals? A hard and honorable work has been done by the scholars from Tsinghua University.

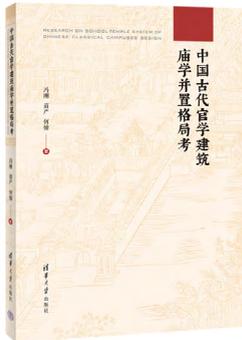
This book summarizes the work of scholars at Tsinghua University on the restoration of the ancient Chinese rituals, covering the fields of classical studies, history, archaeology, music and creative media technology. Searching for a research clue from unearthed bamboo slips and ancient wire-bound books, applying motion-tracking and green screen shooting techniques, and then 3D modeling, it strives to realize the perfect combination of modern technology and traditional culture. The scholars at Tsinghua University have left solid and steady figures from handmade workshops to studio sites, bridging the gap between classroom teaching and social practice.

About Author:

张涛，历史学博士，清华大学国家治理与全球治理研究院副研究员，国际儒学联合会会刊《国际儒学》编辑。

ZHANG Tao, Ph.D. in History, associate professor in Institute of National Governance and Global Governance, Tsinghua University, editor of International Studies on Confucianism (journal of International Confucian Association).

中国古代官学建筑庙学并置格局考



Research on School-Temple System of Chinese Classical Campuses Design

作者：冯刚、苗严、何慷

Author: FENG Gang, MIAO Yan, HE Kang

ISBN: 9787302585831

Publication Date: 2022/9/1

Page Count: 18.75

About the Book:

本书主要研究中国古典校园设计中的“庙学制度”，以教育学、文化学、历史学研究成果为基础，重点从城乡规划学与建筑学领域揭示中国古典大学校园规划与教育建筑设计的基本特点机器规划思想。全书分三个部分，“庙学制度”产生发展的历史过程，及推动其主导校园设计的儒学基因；“庙学制度”城乡规划学层面的基本特征及规划思想；“庙”与“学”建筑学层面的建筑设计代表性特点。

This book primarily explores the “School-Temple System” in classical Chinese campus design. Based on achievements in education, cultural studies, and history, it focuses on unveiling the fundamental characteristics and planning ideas of China’s classical university campus planning and educational architecture design from the urban and rural planning and the architecture fields. The book is divided into three parts: the historical process of the emergence and development of the “School-Temple System” and the Confucian gene dominating campus design; the fundamental characteristics and planning ideas of the “School-Temple System” at the level of urban and rural planning; and the representative characteristics of the architectural design of “temples” and “schools” from the architectural perspective.

About Author:

冯刚，天津大学工学博士，加利福尼亚大学洛杉矶分校访问学者，天津大学建筑学院副教授。长期从事大学校园规划领域的研究与设计实践。

Feng Gang received his Ph.D. in Engineering from Tianjin University and is a visiting scholar at the University of California, Los Angeles, associate professor at Tianjin University School of Architecture. He has long been engaged in research and design practices of university campus planning.

北宋表启研究

The Study about Biao and Qi of Northern Song Dynasty



作者：张正

Author: ZHANG Zheng

ISBN: 9787302620013

Publication Date: 2022/12/1

Page Count: 358

About the Book:

本书特选北宋文士使用频率最高，作品数量最多，亦最能反映宋四六之创作技法与整体风格的表、启两种体裁作为重点研究对象，试图通过对其历史传承、写法特色、发展脉络及后世影响等问题的探讨，全方位展现北宋四六文丰富多彩的艺术面貌。

The book focuses on the two genres of biao (a literary style like prose) and qi (a literary style like preface), which were most frequently used by literati in the Northern Song Dynasty, had the highest quantity of works, and can best reflect the creative techniques and overall style of the Song Dynasty's parallel prose creation. Through discussions on their historical inheritance, stylistic characteristics, developmental processes, and influence on later generations, the book aims to comprehensively showcase the diverse artistic aspect of the parallel proses of the Northern Song Dynasty.

About Author:

张正，中国人民大学国学院哲学学士，中国人民大学国学院哲学硕士，清华大学人文学院文学博士。

Zhang Zheng received his Bachelor's degree in Philosophy from Renmin University of China School of Chinese Classics, Master's degree in Philosophy from Renmin University of China School of Chinese Classics, and Ph.D. in Literature from the School of Humanities, Tsinghua University.

清史档案中的清代文史书写



Literary and Historical Writing in the Qing Dynasty Historical Documents

作者：戚学民

Author: Qi Xuemin

ISBN: 9787302607137

Publication Date: 2022/6/1

Page Count: 288

About the Book:

本书基于台北故宫博物院清国史馆档案，首次系统研究清史《文苑传》，揭示了清朝古文史、诗歌史和经世学史整体论述的形成过程，研究全部基于学界较少使用的清史《儒林传》和《文苑传》档案，实事求是，每篇文章均提出了原创性观点。本书属《清华史学文库》丛书，体现了清华历史系中国近现代史方向的学术传统和研究特色，有关内容可以供史学界师生和史学爱好者参考。

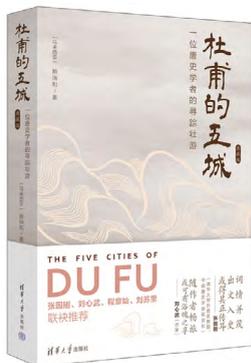
Based on the Taipei National Palace Museum's Collection of Qing Dynasty Historical Documents, this book is the first systematic study of the Biographies of Literary Figures (Wenyuan Zhuan) in Qing history. It reveals the formation process of the overall discourse on ancient literature, poetry, and practical learning history in the Qing Dynasty. The research is rooted in the less-utilized archives of Biographies of Confucians (Ru Lin Zhuan) and Biographies of Literary Figures (Wen Yuan Zhuan) in the Qing Dynasty, presenting original viewpoints in each chapter based on truth. This book belongs to the series "Tsinghua Historiography Library," reflecting the academic tradition and research characteristics of the Department of History, Tsinghua University, in the field of modern and contemporary Chinese history. Its content can serve as a reference for history teachers, students, and enthusiasts.

About Author:

戚学民，清华大学历史系长聘教授，学术方向为晚清史、民国史，著有学术专著两种，核心期刊论文三十余篇。

Qi Xuemin is a tenured professor in the Department of History, Tsinghua University, specializing in late Qing history and the history of the Republic of China. He has authored two academic monographs and published over thirty papers in core journals.

杜甫的五城：一位唐史学者的寻踪壮游（典藏版）



The Five Cities of Du Fu (Collector's Edition)

作者：赖瑞和

Author: LAI Ruihe

ISBN: 9787302613183

Publication Date: 2022/12/1

Page Count: 344

About the Book:

1989年，35岁的赖瑞和先生开始了他在中国内地的搭火车旅行计划。自此，直到1993年，作者先后9次独自深入中国内地畅游，抵达除东北三省和西藏、海南外的所有省区市，行程累计4.9万公里，走“五城”，“入剑门”，访湘西……他既到了西安、北京等繁华都市，也来到青海格尔木、山西三岔等荒寂小镇；他游览了大雁塔、云冈石窟等知名景点，更寻访了很多不为人知的冷门景点，如山东嘉祥的武梁祠、云南大理的“南诏德化碑”。作者遇到了各种各样的人，沙河镇乐天知命的老工人、安心赚取车票差价的女列车员、看管研究武梁祠三十年的朱教授、在火车硬座下睡觉的老太婆……

作者以沉静的笔调、简练的语言，配合丰富老照片，记录20世纪八九十年代中国内地的山川形胜、历史遗迹、市井风俗。

In 1989, 35-year-old Mr. Lai Ruihe started his train travel in mainland China. From then until 1993, he solitarily embarked on nine journeys deep into the Chinese mainland, reaching all provinces, regions, and municipalities except the three provinces in northeast China, Tibet, and Hainan, covering a total distance of 49,000 kilometers. He visited the “Five Districts,” entered the “Jianmen Pass,” and explored Western Hunan... He visited bustling cities like Xi’an and Beijing, as well as desolate towns like Golmud in Qinghai and Sancha in Shanxi. He explored famous attractions like the Dayan Pagoda and the Yungang Grottoes, as well as lesser-known sites like Wuliang Shrine in Jiexiang, Shandong, and the “Nanzhao Dehua Inscription” in Dali, Yunnan. The author encountered various people, the contented old worker in Shahe Town, the female train conductor pocketing the difference ticket fare without feeling guilty, Professor Zhu who had been studying Wuliang Shrine for thirty years, and the old woman sleeping under a hard seat on the train... The author records the magnificent natural sceneries, historical sites, and everyday customs of the Chinese mainland in the 1980s and 1990s with a calm tone and concise language, along with abundant old photos.

About Author:

赖瑞和（1953—2022），马来西亚国籍，祖籍广东梅县。中国台湾清华大学历史研究所荣誉退休教授。

Lai Ruihe (1953–2022) was a Malaysian originally from Meixian, Guangdong. He was an emeritus professor at the Institute of History, National Tsing Hua University, Taiwan.

画说庄子



Painting ZHUANGZI

作者：于莲

Author: YU Lian

ISBN: 9787302639008

Publication Date: 2023/7/1

Page Count: 236

About the Book:

本书第一篇创作于2020年初——2021年8月，选取了个人非常喜欢也是大家耳熟能详的《庄子》17个寓言故事。每个故事先是以故事场景为题材内容创作了油画作品，之后又写了相应的解读文章。第二篇创作于2021年8月——2022年10月，以庄子内七篇逍遥游、齐物论、养生主、人间世、德充符、大宗师、应帝王每一篇章为题材进行油画创作，并进行通篇文字解读。

The first part of this book, written between early 2020 and August 2021, selects 17 allegorical stories from Zhuangzi, which are both favored by the author and well-known to the general public. For each story, first, oil paintings are created with the subject being the scenario of the story, followed by corresponding interpretive articles. The second part, written between August 2021 to October 2022, is oil paintings based on the seven chapters of Zhuangzi, including Wandering Beyond (Xiao Yao You), Discussion on Smoothing Things Out (Qi Wu Lun), The Principle of Nurturing Life (Yang Sheng Zhu), The Realm of Human Interactions (Ren Shi Jian), Signs of the Flourishing of Potency (De Chong Fu), The Vast Ancestral Teacher (Da Zong Shi), and Responding to Emperors and Kings (Ying Di Wang), with comprehensive textual interpretations provided.

About Author:

于莲，本名于长莲，当代油画艺术家，以表现性艺术风格、大胆用色和原生造型元素的艺术作品走入大众视野。

Yu Lian, originally named Yu Changlian, is a contemporary oil painter known for expressive artistic style, bold colors, and original forms in her works.

清华国学人物小传



Short Biographies of Tsinghua's Chinese Learning Figures

作者：陈来 主编、高海波、赵金刚 副主编
 Editor-in-Chief: CHEN Lai; Associate Editor-in-Chief: GAO Haibo, ZHAO Jingang
 ISBN: 9787302608141
 Publication Date: 2022/10/1
 Page Count: 262

About the Book:

1925年，清华大学成立国学研究院，在四年的历程中，大师汇聚，成果瞩目；同时以国学研究院为平台，培养了一批优秀的国学研究人才，为中国文化的持续发展做出了独特贡献。清华的国学成就，成为近现代国学研究的一面旗帜。本书以清华国学研究院四大导师及梁漱溟、李济为传主，以简明扼要的文字，介绍他们的生平、贡献以及与清华的关系。本书的研究建立在翔实材料与扎实的研究基础之上，是国学爱好者、清华校史研究者、清华校友和在校师生了解清华国学传统的一扇窗。

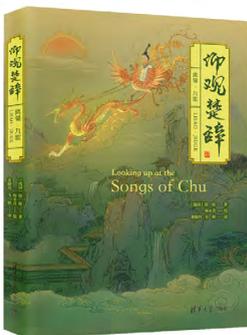
In 1925, Tsinghua University established the Academy of Chinese Learning, which attracted many masters and achieved remarkable results over four years. At the same time, the institute also cultivated a group of outstanding research talents in the field of Chinese learning, making a unique contribution to the continuous development of Chinese culture. Tsinghua's achievements in Chinese learning have become a banner in modern and contemporary research in Chinese learning. This book features the four primary mentors of the Tsinghua Academy of Chinese Learning, as well as Liang Shuming and Li Ji, focusing on their life stories, contributions, and their connections with Tsinghua using terse words. The research in this book is based on informative materials and a strong research foundation, providing a window for Chinese learning enthusiasts, researchers of Tsinghua's history, Tsinghua alumni, and current faculty and students to understand Tsinghua's tradition in Chinese learning.

About Author:

陈来，清华大学国学研究院院长，清华大学哲学系教授，清华大学文科资深教授。学术领域为中国哲学史，主要研究方向为儒家哲学、宋元明清理学、现代儒家哲学，其研究成果代表了目前本领域的领先水平。

Chen Lai is Dean of the Tsinghua Academy of Chinese Learning, a professor in the Department of Philosophy, Tsinghua University, and A senior professor of humanities at Tsinghua University. He specializes in the history of Chinese philosophy, with his main research areas being Confucian philosophy, neo-Confucianism of the Song, Ming, and Qing dynasties, and modern Confucianism. His research achievements represent the leading level in the field.

仰观楚辞：离骚·九歌

Looking Up At the Songs of Chu:
Li Sao and Jiu Ge

作者：（战国）屈原著、杨永青 绘、黄晓丹、韦婷 译
 Author: Written by QU Yuan (Warring States); Illustrated by YANG Yongqing; Translated by HUANG Xiaodan, WEI Ting
 ISBN: 9787302623199
 Publication Date: 2023/3/1
 Page Count: 350

About the Book:

本书是由中国新闻出版总署荣誉奖，安徒生提名奖得主杨永青匠心插画，集传统18描线条和现代考古学知识于一体，以超凡的想象力绘制了与屈原产生情感共鸣的唯美插画。黄晓丹与韦婷博士以诗译诗，字字核意，在直译与意译的基础上，创新采用了三种不同于一般对译的方法：增译、减译、显译，呈现出跨越两千年的诗魂碰撞。本书文图包含精致讲究的文化基因，为人们研究山海经及文学大家芥子须弥之源，聆听人类早期唯美音乐，创意古风汉服设计提供非比寻常的参考。

This book is exquisitely illustrated by the accomplished artist Yang Yongqing, who has been awarded the Honorary Award of the National Press and Publication Administration and nominated for the Hans Christian Andersen Award. He integrates the traditional line drawing techniques of Eighteen Strokes with modern archaeological knowledge, creating beautiful illustrations with extraordinary imagination that make people resonate emotionally with Qu Yuan. The poetic translations of Huang Xiaodan and Dr. Wei Ting capture the essence of the original poems. On the basis of literal and free translations, they creatively employ three translation methods different from the usual word-for-word translations: addition, omission, and explicit translation, presenting a collision of poetic souls that are two millennia apart. The book's texts and illustrations contain exquisite and refined cultural genes, providing an exceptional reference for the study of the Classic of Mountains and Seas and the enormous literary world of literary masters, allowing readers to appreciate the aesthetic music of early the human and offering unique insights into creative ancient Hanfu design.

About Author:

杨永青，版画家、国画家、图书插图家。作品被中国美术馆等多家展览馆收藏。

黄晓丹，江南大学副教授，研究方向是唐宋及清代诗词。

韦婷，深圳大学人文学院助理教授，研究方向为出土文献与传世文献新证研究。

Yang Yongqing (1928-2011) was a print artist, traditional Chinese painter, and illustrator. His works are collected by institutions such as the National Art Museum of China.

Huang Xiaodan is an associate professor at Jiangnan University. Her research focuses on poetry from the Tang, Song, and Qing dynasties.

Wei Ting is an assistant professor at the School of Humanities, Shenzhen University. Her research direction is the study of new evidence from unearthed texts and handed-down documents.

行到水穷处——古代山水画之水的旧形态与新创发



Traveling to the End of the River— Ancient Style and New Form of Chinese Landscape Painting

作者：刘利平

Author: LIU Liping

ISBN: 9787302621669

Publication Date: 2022/12/1

Page Count: 184

About the Book:

本书研究主体是山水画中的水，认为中国古代山水画虽山水并称，但其实从古至今艺术家们对水的创作和研究都是很薄弱的。作者结合自身研究经验和艺术创作经历，系统阐述中国山水画的发生及其背后蕴含的人文哲学逻辑，总结概括山水画发展的历史脉络、基本特点，分析归纳水的物象形态、审美风格及创作技法，并试图为山水画的创新找到新的方向，扩展和丰富传统山水画的内涵。

This book mainly studies water in landscape painting. The author contends that despite the fact that mountains and water enjoy the same reputation in ancient Chinese landscape paintings, artists' exploration and representation of water have historically been quite weak. Drawing from personal research experience and artistic practice, the author systematically elaborates on the emergence of Chinese landscape painting and the underlying humanistic philosophical logic. He summarizes the historical development and fundamental characteristics of landscape painting, analyzes the physical forms, aesthetic styles, and artistic techniques of water, and endeavors to find new directions for innovating landscape painting, thus expanding and enriching the connotations of traditional landscape paintings.

About Author:

刘利平，现任清华大学美术学院助理教授，2020年6月博士论文获评清华大学优秀博士论文。

Liu Liping is currently an assistant professor at the Academy of Arts & Design, Tsinghua University. In June 2020, his doctoral thesis was recognized as an outstanding doctoral thesis by Tsinghua University.

艺术技术学教程：文化遗产的活化与应用



A Course in Art Technology: Activation and Application of Cultural Heritage

作者：丁方、张昊、关家敏

Author: DING Fang, ZHANG Hao, GUAN Jiamin

ISBN: 9787302621959

Publication Date: 2022/12/1

Page Count: 251

About the Book:

本书是中国人民大学重大科研课题——“艺术技术学”一流学科建设的重要成果，该学科建设聚焦于中华优秀传统文化的传承弘扬，“一带一路”艺术与文化遗产的保存修复转移创化，旨在为文化遗产“活化”以及中国文旅产业转型等发展瓶颈问题提供解决方案。艺术技术学不仅可促进、深化“艺术与科学”这一文艺复兴方法论的新时代转化，使之成为中华文艺复兴与东方文艺复兴的学理基础；而且具有提高艺术与文化遗产、艺术与文化遗产管理、艺术与传播等复合人才培养水平，深化产教融合，强化教产学研用一体化的功能。

This book is a significant achievement of the major research project, “Art Technology” first-class discipline construction, of the Renmin University of China. The discipline construction focuses on the inheritance and promotion of outstanding traditional Chinese culture, as well as the preservation, restoration, relocation, and creation of artistic and cultural heritage related to the Belt and Road initiative. It aims to offer solutions to the bottlenecks in the “revitalization” of cultural heritage and the transformation of China’s cultural and tourism industry. Art technology can facilitate and deepen the conversion of the Renaissance methodology of “art and science” in the new era, making it a theoretical foundation for the revival of Chinese culture and the Eastern Renaissance. Furthermore, it is capable of enhancing the development of composite talents in fields such as art and cultural heritage, art and cultural management, and art and communication, as well as deepening the integration of industry and education and strengthening the incorporation of teaching, industry, research, and application.

About Author:

丁方，教授。中国人民大学文艺复兴研究院院长。

张昊，中国人民大学博士。

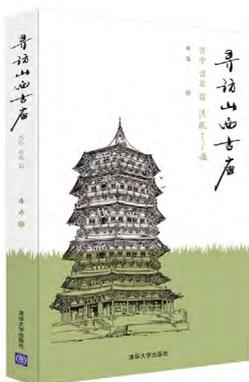
关家敏，中国人民大学博士。

DING Fang: The Han nationality, professor, Dean - Research Institute of Renaissance, Renmin University of China

Zhanghao: Ph.D. in Aesthetics from the School of Philosophy, Renmin University of China.

Guanjiamin: Doctor of Aesthetics, Renmin University of China

寻访山西古庙：晋中、晋北篇



Exploring the Ancient Temples in Shanxi: Central Shanxi and Northern Shanxi

作者：连达

Author: LIAN Da

ISBN: 9787302547624

Publication Date: 2020/4/1

Page Count: 432

About the Book:

山西省现在保存着全国约70%的明以前大木构建筑，各类形式的古建筑保有量更是高居全国之冠，唐、五代、宋、金、元等早期古建筑不胜枚举，明清时期的古建筑群更是数量极为庞大，被誉为“古建筑爱好者的天堂”。本书按地域划分，以绘画和游记的形式将晋中、晋北的中国传统建筑之美展现给读者，同时也记录了众多古民居的现状，希望唤起更多读者对中国传统建筑 and 文化的关注、热爱和保护

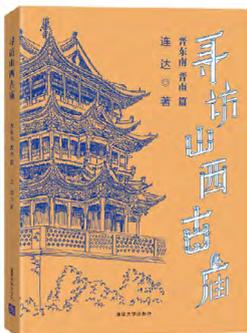
Shanxi Province now preserves about 70% of the country's pre-Ming wooden architecture, and the amount of various forms of ancient architecture is the highest in China, including countless ancient buildings from the early ages of Tang, the Five Dynasties, Song, Jin, and Yuan. In particular, it is home to an immense number of ancient architecture complexes from the Ming and Qing dynasties, so it is known as “a paradise for ancient architecture enthusiasts.” The book is divided by regions and presents the beauty of traditional Chinese architecture in Central Shanxi and Northern Shanxi in the form of illustrations and travel notes. Meanwhile, it records the current situation of many ancient houses, hoping to encourage more readers to pay attention to, love, and protect traditional Chinese architecture and culture.

About Author:

连达，古建筑爱好者，曾经徒步考察河北、北京、天津、山西及辽宁大部的明长城。近年常利用业余时间寻访山西各地古建筑，自学绘画进行记录，足迹遍布山西众多市县和乡村，留下了近千幅写生作品。

Lian Da, an enthusiast of ancient architecture, has explored sections of the Ming Great Wall in Hebei, Beijing, Tianjin, Shanxi, and Liaoning by foot. In recent years, he has spent his spare time visiting ancient architecture across Shanxi. Meanwhile, he has taught himself drawing to document his journey. He has traveled to various towns, counties, and villages in Shanxi, leaving behind nearly a thousand sketches.

寻访山西古庙（晋东南、晋南篇）



Exploring the Ancient Temples in Shanxi: Southeastern Shanxi and Southern Shanxi

作者：连达

Author: LIAN Da

ISBN: 9787302470366

Publication Date: 2017/5/1

Page Count: 332

About the Book:

山西省现在保存着全国约70%的明以前大木构建筑，各类形式的古建筑保有量更是高居全国之冠，唐、五代、宋、金、元等早期古建筑不胜枚举，明清时期的古建筑群更是数量极为庞大，被誉为“古建筑爱好者的天堂”。本书按地域划分，以绘画和游记的形式将晋中、晋北的中国传统建筑之美展现给读者，同时也记录了众多古民居的现状，希望唤起更多读者对中国传统建筑 and 文化的关注、热爱和保护。

Shanxi Province now preserves about 70% of the country's pre-Ming wooden architecture, and the amount of various forms of ancient architecture is the highest in China, including countless ancient buildings from the early ages of Tang, the Five Dynasties, Song, Jin, and Yuan. In particular, it is home to an immense number of ancient architecture complexes from the Ming and Qing dynasties, so it is known as “a paradise for ancient architecture enthusiasts.” The book is divided by regions and presents the beauty of traditional Chinese architecture in Central Shanxi and Northern Shanxi in the form of illustrations and travel notes. Meanwhile, it records the current situation of many ancient houses, hoping to encourage more readers to pay attention to, love, and protect traditional Chinese architecture and culture.

About Author:

连达，古建筑爱好者，曾经徒步考察河北、北京、天津、山西及辽宁大部的明长城。近年常利用业余时间寻访山西各地古建筑，自学绘画进行记录，足迹遍布山西众多市县和乡村，留下了近千幅写生作品。

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佛光寺东大殿



The East Hall of Foguang Monastery

作者: 赵波

Author: ZHAO Bo

ISBN: 9787302518006

Publication Date: 2022/7/1

Page Count: 24

About the Book:

1000多岁的佛光寺东大殿，究竟是一座怎样的建筑？它是怎么建造起来的？书中含精心设计的东大殿斗拱和明间梁架的立体纸模型，轻展书页，感受“唐风扑面”的巍峨架构。

我们用这样一部富于创意而又扎实的作品，真诚地邀请你走进五台山，仔细看一看这座屹立千年的唐代遗构——佛光寺东大殿。拉页、翻翻页等小机关（这些可不是孩子专属！），将梁思成、林徽因以来的建筑史学研究积累，深入浅出地展现出来。试试用比例缩小的营造尺量一量半透明牛油纸上的斗拱、梁架和平面设计图，找到古代工匠的感觉。文献、档案、碑刻、题记、一片小小的壁画，就如同一条条线索，在抽丝剥茧般的推理游戏中，古代建筑的奥秘被一步步揭开。

What kind of architecture is the thousand-year-old East Hall of Foguang Monastery exactly? How was it built? The book contains 3D paper models of the intricately designed bracket system and beam frames of the East Hall. By gently unfolding the pages, readers can experience the grandeur framework full of the Tang Dynasty's charisma.

With such creative and solid work, we sincerely invite you to Mount Wutai and take a close look at this thousand-year-old architectural masterpiece from the Tang Dynasty – the East Hall of Foguang Monastery. Gimmicks such as gatefolds and pop-up pages (which are not just for kids!) allow the accumulated historical research on architecture since the era of Liang Sicheng and Lin Huiyin to be presented in a clear and accessible manner. Try using the scaled-down standard ruler to measure the bracket system, beam frames, and floor plans on translucent tracing paper and get the feeling of being an ancient craftsman. Historical documents, archives, stone inscriptions, prefaces, and a piece of miniature wall painting are like clues, gradually unraveling the mysteries of ancient architecture in a step-by-step deductive game.

About Author:

赵波，清华大学建筑学院建筑历史与理论方向硕士，现任清华大学建筑学院教学与项目助理。

Zhao Bo received his Master's degree in Architectural History and Theory from the School of Architecture, Tsinghua University. He currently serves as an assistant for teaching and projects at the School of Architecture, Tsinghua University.

中国建筑要素溯源：庭院、斗拱和藻井



Tracing the Elements of Chinese Architecture: Courtyards, Beam Systems, and Sunk Panels

作者：谢景

Author: XIE Jing

ISBN: 9787302616214

Publication Date: 2022/12/1

Page Count: 167

About the Book:

庭院、斗拱和藻井作为中国古建筑的三大重要元素，其源远流长。学术界对于它们的探讨一直以来没有停息过。建筑实践更是受到了这些中国元素的影响，特别是在重要公共文化建筑中，它们一直被创新性地诠释。但是，目前绝大多数的学术研究对于这些建筑元素都是围绕在其类型学和结构功能方面的，在人文上的研究甚少。或许正是因为缺少人文上的基础研究，导致了现代建筑实践中把庭院、斗拱和藻井仅仅作为一种空间、结构和视觉元素。本书追溯庭院、斗拱和藻井在早期中国的渊源，以及它们在汉代一系列与天国和升天主题相关的演绎。本研究的基础材料主要为考古发现的新石器时代遗址，商周青铜器和宫殿庙宇遗址，汉代石墓、画像石和铜镜等，以及古文字和文献资料。通过研究可以看到庭院、斗拱和藻井在早期有效地表达了中国古人的宇宙观、世界观和人生观。

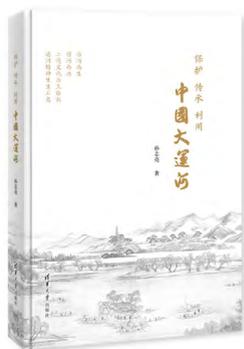
Courtyards, bracket systems, and sunk panels are the three essential elements of ancient Chinese architecture that go a long way back. The academic world's discussion on these three has never ceased. Architectural practice has also been influenced by these Chinese elements, especially in significant public and cultural buildings, where they have been innovatively interpreted. However, the majority of current academic research focuses on their typology and structural functionality, while little attention is given to their cultural significance. Perhaps it is due to the lack of foundational research on the humanistic culture that modern architectural practice often treats courtyards, bracket systems, and sunk panels merely as spatial, structural, and visual elements. This book traces the origins of courtyards, bracket systems, and sunk panels in early China, as well as their various interpretations in the Han Dynasty related to themes of heavenly realms and ascension to heaven. The basic materials for this study primarily include archaeological discoveries from the Neolithic era, bronze ware from the Shang and Zhou dynasties, palace and temple ruins, stone tombs from the Han Dynasty, stone reliefs, bronze mirrors, as well as ancient texts and documents. Through this research, readers can observe how courtyards, bracket systems, and sunk panels effectively conveyed the ancient Chinese people's cosmology view, worldview, and philosophy of life.

About Author:

谢景，建筑与城市历史学者，宁波诺丁汉大学博士生导师，研究重点是在中国传统建筑、城市形态、社会生活和历史遗产保护方面。

Xie Jing is a scholar of architectural and urban history. As a doctoral supervisor at the University of Nottingham Ningbo China, his research focuses on traditional Chinese architecture, urban form, social life, and heritage preservation.

保护 传承 利用——中国大运河



Conservation, Inheritance, Utilization - The Grand Canal of China

作者：孙志亮

Author: SUN Zhiliang

ISBN: 9787302616627

Publication Date: 2022/8/1

Page Count: 224

About the Book:

中国大运河无锡段起源于商周，形成于春秋，发展于隋唐，兴盛于明清，如今依旧发挥着交通航运防洪排涝、文化旅游、生态廊道等功能，对无锡经济社会发展、人民生活各方面具有举足轻重的作用。本书作者从无锡是大运河变迁的见证者、保护传承利用的先行者等方面，讲述了保护传承利用中国大运河中的无锡贡献和永续利用大运河中的无锡探索。本书可供历史、文化、经济、旅游、水利、交通、生态、城市科学等领域的研究者及相关专业师生参考。

The Wuxi section of the Grand Canal of China originated during the Shang and Zhou dynasties, took shape in the Spring and Autumn Periods, developed further during the Sui and Tang dynasties, and prospered in the Ming and Qing Dynasties. To this day, it continues to serve essential functions such as transportation, flood control, drainage, cultural tourism, and ecological corridor, playing a pivotal role in various aspects of Wuxi's economic and social development, as well as people's production and livelihood. From the viewpoint that Wuxi is a witness to the evolution of the Grand Canal and a pioneer in the preservation, inheritance, and utilization of the Grand Canal, the author discusses Wuxi's contributions to the conservation and utilization of the Grand Canal of China and Wuxi's exploration into sustainable utilization of the Grand Canal. This book serves as a reference for researchers in fields such as history, culture, economy, tourism, water resources, transportation, ecology, and urban studies, as well as teachers and students of related majors.

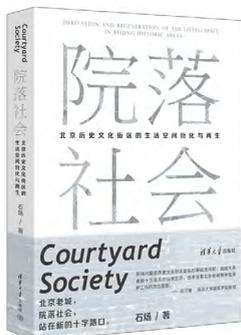
About Author:

孙志亮，高级规划师，曾参加无锡市区古运河规划的调研、编制工作。

Sun Zhiliang is a senior urban planner and he has participated in the research and formulation of the ancient canal planning in Wuxi City.

院落社会：北京历史文化街区的生活空间衍化与再生

Courtyard Society: Derivation and Regeneration of the Living Space in Beijing Historic Areas



作者：石杨

Author: SHI Yang

ISBN: 9787302612599

Publication Date: 2022/8/1

Page Count: 300

About the Book:

作为十余年实地调查研究的沉淀，本书从家庭—院落—片区等不同层面的鲜活实例入手，以平实生动的语言、丰富的图照细致呈现了进入21世纪以来北京历史文化街区生活空间的现状、衍化及不同群体的日常生活，深入剖析亟待解决的问题及背后原因、相关政策和实践，从整体性的视角，对人口、住房、公共资金投入、改造措施、业态、治理等方面展开综合分析，对六个关键问题和四类界线展开论述，提出复兴历史文化街区及生活空间再生的建议，呼吁均衡保护，底线保障，改善居住困难群体的生活条件。最后，对清华大学建筑学院和社会学系在长期跟踪研究中的探索和设想加以介绍，涉及什刹海地区、烟袋斜街、大小石碑胡同等典型实例。本书为破解我国历史文化街区、历史地段、老旧小区等面临的基础性难题提供了宝贵思路。

Based on over a decade of field investigations and research, this book starts with vivid examples from different levels, including households, courtyards, and neighborhoods, presenting the current state of the living spaces in Beijing's historic areas, the evolutions, and daily lives of various groups in the 21st century in detail with simple, intriguing languages and abundant pictures. It delves into the pressing issues, the underlying causes, related policies, and practices. From a holistic perspective, it comprehensively analyzes aspects such as population, housing, public funding, renovation measures, business forms, and governance. It addresses six key issues and discusses four categories of boundaries, proposing suggestions for revitalizing historic areas and regenerating living spaces, advocating for balanced protection, bottom-line guarantees, and improved living conditions for vulnerable groups. At last, it introduces the exploration and ideas of the School of Architecture and School of Social Sciences, Tsinghua University, in their tracking study over an extended period, involving typical examples like the Shichahai area, Yandai Diagonal Street, Dashibei Hutong, and Xiaoshibei Hutong. This book offers valuable insights into solving fundamental challenges faced by historic areas, historical sites, and old neighborhoods in China.

About Author:

石杨，北京建筑大学建筑与城市规划学院讲师，主要研究方向为历史城市保护更新和社区治理。参与北京老城保护相关研究和实践二十余项。

Shi Yang is a lecturer at the School of Architecture and Urban Planning at the Beijing University of Civil Engineering and Architecture. His main research areas include historical urban preservation and regeneration and community governance. He has participated in over twenty research and practical projects related to the preservation of Beijing's old city.

城市更新与城市设计治理：英国实践与中国探索



Urban Regeneration & Urban Design Governance

作者：祝贺

Author: ZHU He

ISBN: 9787302597087

Publication Date: 2022/6/1

Page Count: 276

About the Book:

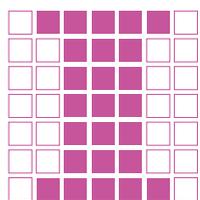
本书从分析设计质量对于城市更新的价值，以及城市更新中设计思维与规划思维的差异入手，回溯中英城市更新运作环境的演进历程，系统介绍英国城市更新和城市设计治理的基本理论、政策体系，对中英两国城市更新中具有城市设计治理性质的实践经验和典型案例进行对比分析，阐释引导工具、激励工具、知识工具等十五种城市设计治理工具的应用情况，进一步构建了城市设计治理作用于城市更新的方法体系，提出面向我国国情的城市更新与城市设计治理复合路径，以期完善我国城市设计与城市更新制度建设的短板，使城市设计从管理控制模式向综合治理模式延伸。

Beginning with an analysis of the value of design quality and the differences between design thinking and planning thinking in urban regeneration, this book traces the evolutionary process of the operating environment for urban regeneration in China and the UK. It systematically introduces the basic theories and policy systems of urban regeneration and urban design governance in English cities, comparing and analyzing the practical experiences and typical cases with the feature of urban design governance in urban regeneration in both countries. It explains the application of fifteen urban design governance tools, including guidance tools, incentive tools, and knowledge tools, to further construct a methodological system for urban design governance to impact urban regeneration and propose a composite path for urban regeneration and urban design governance tailored to China's national conditions. This aims to address the weaknesses in China's urban design and urban regeneration system so that the urban design can transition from a management and control mode to a comprehensive governance mode.

About Author:

祝贺，北京建筑大学城市规划系讲师，清华大学城乡规划学博士。研究方向为城市设计管理与治理、城市更新制度与政策、城市治理理论。

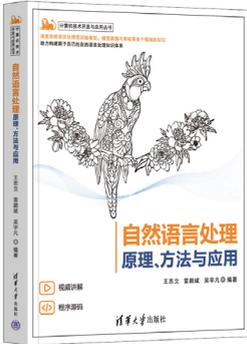
Zhu He is a lecturer in the Department of Urban Planning at the Beijing University of Civil Engineering and Architecture. He holds a Ph.D. in Urban and Rural Planning from Tsinghua University. His research directions include urban design management and governance, urban regeneration systems and policies, and urban governance theories.



信息技术

Information Technology

自然语言处理——原理、方法与应用



Natural Language Processing – Principles, Methods and Applications

作者：王志立、雷鹏斌、吴宇凡

Author: WANG Zhili, LEI Pengbin, WU Yufan

ISBN: 9787302617747

Publication Date: 2023/3/1

Page Count: 236

About the Book:

本书系统阐述自然语言处理基础知识，以及自然语言处理高级模型应用等高级知识。全书共11章：第1~5章为自然语言处理的基础知识，第6~11章则将自然语言处理知识应用于实战。书中主要内容包括预训练模型、文本分类、机器阅读理解、命名实体识别、文本生成、模型蒸馏与剪枝及损失函数等知识。书中包含大量应用示例，不仅可以学会理论知识还可以灵活应用。书中示例基于Linux与PyTorch环境开发，读者在学习自然语言处理知识的同时还可学会PyTorch框架技术，内容完整、步骤清晰，提供了工程化的解决方案。本书可作为有一定深度学习基础的读者的入门书。

This book systematically explains the fundamentals of natural language processing (NLP) and advanced knowledge related to advanced NLP model applications. The book consists of 11 chapters: Chapters 1-5 cover the basics of NLP, and Chapters 6-11 apply NLP knowledge to practical scenarios. The book primarily introduces pre-trained models, text classification, machine reading comprehension, named entity recognition, text generation, model distillation and pruning, loss functions, and so on. The book contains numerous application examples, enabling readers not only to grasp theoretical knowledge but also to apply it flexibly. The examples in the book are developed based on the Linux and PyTorch environments, so readers can learn PyTorch framework techniques while studying NLP concepts. With comprehensive content and clear steps, it provides engineered solutions. This book can serve as a primer for readers with a certain foundation in deep learning.

About Author:

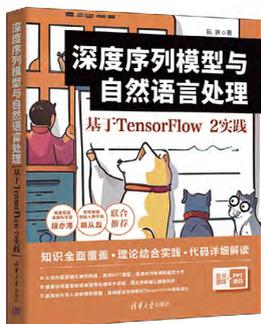
王志立，自然语言处理工程师，先后在腾讯等多家知名企业从事大数据与人工智能算法工作。

雷鹏斌，深圳大学硕士，华为AI算法工程师，主要从事chatops、知识图谱的研究与应用工作。

Wang Zhili is a natural language processing engineer who has worked in big data and AI algorithms for several well-known companies including Tencent.

Lei Pengbin received his Master's degree from Shenzhen University and works as an AI algorithm engineer for Huawei. He is primarily engaged in the research and application of chatops and knowledge graphs.

深度序列模型与自然语言处理：基于TensorFlow 2实践



Deep Sequence Models and Natural Language Processing: A TensorFlow 2-Based Practice

作者：阮翀

Author: RUAN Chong

ISBN: 9787302629610

Publication Date: 2023/5/1

Page Count: 340

About the Book:

本书以自然语言和语音信号处理两大应用领域为载体，详细介绍深度学习中的各种常用序列模型。全书共12章，不仅涵盖了词向量、循环神经网络、卷积神经网络、Transformer 等基础知识，还囊括了注意力机制、序列到序列问题等高级专题，同时还包含其他书籍中较少涉及的预训练语言模型、生成对抗网络、强化学习、流模型等前沿内容，以拓宽读者视野。既适合互联网公司算法工程师等群体阅读，又可以作为本科高年级或研究生级别的自然语言处理和深度学习课程的参考教材。

With the two major application fields, natural language and speech signal processing, as a carrier, this book details various sequence models commonly used in deep learning. The 12 chapters of the book cover not only fundamental knowledge such as word embedding, recurrent neural networks, convolutional neural networks, and transformers but also advanced topics like attention mechanisms and sequence-to-sequence problems. Meanwhile, it includes cutting-edge content that is rarely covered in other looks, such as pre-trained language models, generative adversarial networks, reinforcement learning, and flow-based models, to broaden readers' horizons. It suits algorithm engineers in internet companies and serves as a reference textbook for senior undergraduate or graduate-level courses in natural language processing and deep learning.

About Author:

阮翀，北京大学计算语言研究所硕士，曾负责网易有道离线神经网络机器翻译模块和Kikatech 印度输入法引擎算法研发工作。

Ruan Chong received his Master's degree from the Institute of Computational Linguistics, Peking University. He was in charge of the development of offline neural machine translation modules at Netease Youdao and engine algorithm for Kikatech India input method.

HuggingFac自然语言处理详解——基于BERT中文模型的任务实战



HuggingFace Natural Language Processing Explained – Practical Tasks Based on the BERT Chinese Mode

作者: 李福林

Author: LI Fulin

ISBN: 9787302628538

Publication Date: 2023/4/1

Page Count: 240

About the Book:

本书综合性讲解HuggingFace社区提供的工具集datasets和transformers, 书中包括最基础的工具集的用例演示, 也包括具体的项目实战, 以及预训练模型的底层设计思路和实现原理的介绍。通过本书的学习, 读者可以快速掌握HuggingFace工具集的使用方法, 掌握自然语言处理项目的一般研发流程, 并能研发自己的自然语言处理项目。本书共14章, 分为工具集基础用例演示篇(第1~6章), 详细讲解HuggingFace工具集的基本使用方法。中文项目实战篇(第7~12章), 通过几个实战项目演示使用HuggingFace工具集研发自然语言处理项目的一般流程。预训练模型底层原理篇(13~14章), 详细阐述了预训练模型的设计思路和计算原理。

This book comprehensively explains the toolsets the HuggingFace community offers, including datasets and transformers. The book covers basic toolset application cases, specific project implementations, and the underlying design principles and implementation details of pre-trained models. This book allows readers quickly grasp how to use the HuggingFace toolset, master the general development process of NLP projects, and develop their own NLP projects. The book comprises 14 chapters: The Toolset Basics and Application Case Demonstrations part (Chapters 1-6) provide a detailed explanation of the basic usage of the HuggingFace toolset. The Chinese Project Implementations part (Chapters 7-12) demonstrates the general process of developing NLP projects using the HuggingFace toolset through several practical projects. The Underlying Principles of Pre-trained Model part (Chapters 13-14) elaborates on the design principles and computational principles of pre-trained models.

About Author:

李福林, 一个在IT领域摸爬滚打十多年的老程序员、培训师, 精通多种IT技术, 具有软件设计师职称。

Li Fulin is a seasoned programmer and trainer with over ten years of experience in the IT field. He is well-versed in various IT technologies and holds the professional title of software designer.

人工智能与ChatGPT



AI and ChatGPT

作者：范煜

Author: FAN Yu

ISBN: 9787302638179

Publication Date: 2023/7/1

Page Count: 308

About the Book:

人们相信人工智能可以为这个时代的技术带来突破，而ChatGPT则使这种希望成为现实。现在，许多人都渴望了解与ChatGPT相关的一切，包括技术的历史和背景，其神奇的功能以及如何使用它。虽然ChatGPT的使用方法很简单，但它具有无限的潜力。如果不去亲身体验，很难体会到它的强大之处。本书尽可能全面地介绍了与ChatGPT相关的内容，特别是许多应用示例，可以给读者带来启发。希望读者通过这本书了解ChatGPT后，在自己的工作中也能充分利用它。

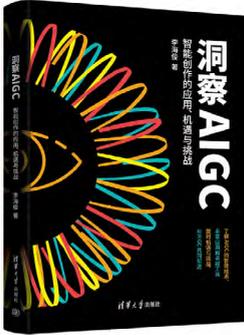
People believe that artificial intelligence can bring about breakthroughs in the technology of this era, and ChatGPT makes this hope a reality. Many people are now eager to learn about everything related to ChatGPT, including its technological history and background, its magical capabilities, and how to use it. While ChatGPT is easy to use, it holds infinite potential. It is hard to truly appreciate its power without first-hand experience. This book introduces content related to ChatGPT as comprehensively as possible. In particular, the numerous application examples contained within can inspire readers. We hope readers can make full use of ChatGPT in their own work after gaining a thorough understanding of it through this book.

About Author:

范煜，研究员级高级工程师，中国商业联合会数据分析专业委员会专家组成员，中国移动集团、51CTO外聘大数据讲师目前主要从事私有化部署类ChatGPT模型研究。

Fan Yu is a researcher-level senior engineer and a member of the Expert Group of the China Data Analysis Committee, China General Chamber of Commerce. He is also an external lecturer on big data at China Mobile and 51CTO. His current focus is on the research of private deployment of ChatGPT models.

洞察AIGC：智能创作的应用、机遇与挑战



Insights into AIGC: Applications, Opportunities and Challenges of Intelligent Creation

作者：李海俊

Author: LI Haijun

ISBN: 9787302640714

Publication Date: 2023/7/1

Page Count: 228

About the Book:

本书内容分为 3 篇：第 1 篇“AIGC 的蜕变”讲述 AIGC 的发展历史及其背后的智能；第 2 篇“AIGC 的应用”讲述 AIGC 在文学创作、日常办公、知识管理、科研出版、工业制造、健康医疗、金融服务、品牌营销领域的应用现状及常用工具；第 3 篇“AIGC 的机遇与挑战”讲述 AIGC 的资本与技术前景，同时提出需要注意的风险。

This book is divided into three parts: Part 1, “AIGC Evolution,” recounts the developmental history of AIGC and the intelligence behind it. Part 2, “AIGC Applications,” discusses AIGC’s current applications and common tools in fields such as literary creation, daily office work, knowledge management, research publication, industrial manufacturing, healthcare, finance services, and brand marketing. Part 3, “AIGC Opportunities and Challenges,” explores the capital and technological prospects of AIGC while also highlighting potential risks to be aware of.

About Author:

李海俊，亚太硅谷研究院研究员，上海交大国家战略研究院项目顾问，主要研究领域是半导体产业数字化转型及战略决策。

Li Haijun is a researcher at the Asia-Pacific Chip Valley Research Institute and a project consultant at the National Strategic Research Institute of Shanghai Jiao Tong University. His primary research areas are digital transformation and strategic decision-making in the semiconductor industry.

量子人工智能



Quantum AI

作者: JIN Xianmin, HU Junjie

Author: JIN Xianmin, HU Junjie

ISBN: 9787302619192

Publication Date: 2023/6/1

Page Count: 268

About the Book:

本书旨在采用对深度学习爱好者友好的方式，构建量子人工智能应用。全书共13章，第1章和第2章系统介绍量子计算机发展脉络和量子计算编程的基础知识。第3~7章分别介绍不同的深度学习方法和在这些算法逻辑上构建量子启发算法的方式。第8章和第9章是量子人工智能的进阶知识，讲解不同量子算法的可行的评估方式和量子神经网络基于Torch.Script技术进行算子化的内容。第10~13章通过在原生的深度学习PyTorch环境中引入量子算法，带来可能的量子增强，并分别实现了对材料晶体结构相变过程搜索，冠状病毒RNA序列变异预测、药物虚拟筛选中亲和能的预测及基因表达药物设计等案例。

This book is designed to build quantum AI applications in a way that is friendly to deep learning enthusiasts. The book consists of 13 chapters. Chapters 1 and 2 systematically introduce the development processes of quantum computers and the basics of quantum computing programming. Chapters 3 to 7 cover various deep learning methods and ways to construct quantum-inspired algorithms on these algorithm logics. Chapters 8 and 9 delve into advanced quantum AI knowledge, explaining feasible evaluation methods for different quantum algorithms and the operationalization of quantum neural networks based on Torch.Script. Chapters 10 to 13 introduce possible quantum enhancements by incorporating quantum algorithms into the native PyTorch environment of deep learning, and implement cases such as searching for phase transition processes in crystal structures of materials, predicting mutations in RNA sequences of the coronavirus, predicting the affinity energy in virtual drug screening, and gene expression drug design.

About Author:

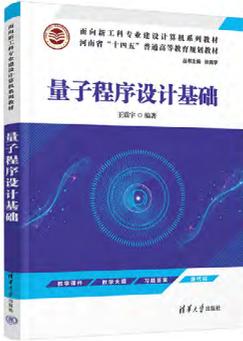
金贤敏，上海交通大学长聘教授，集成量子信息技术研究中心主任。

胡俊杰，现就职于上海交通大学集成量子信息技术研究中心，主要研究方向为在实验室光子芯片平台上进行量子模拟与量子机器学习。

Jin Xianmin is a tenured professor at Shanghai Jiao Tong University and Director of the Center for Integrated Quantum Information Technologies (IQIT).

Hu Junjie currently works at the Center for Integrated Quantum Information Technologies (IQIT) at Shanghai Jiao Tong University. His main research direction involves quantum simulation and quantum machine learning on the photonic chip platform in the laboratory.

量子程序设计基础



Fundamentals of Quantum Program Design

作者：王震宇

Author: WANG Zhenyu

ISBN: 9787302604853

Publication Date: 2022/10/1

Page Count: 197

About the Book:

本书系统介绍量子线路和量子程序设计的基础知识及原理方法，精选的内容与编程实例旨在帮助学生培养量子程序设计、调试和分析等方面的基本能力，从而为将来的学习、研究和应用奠定基础。

全书既注重原理，又注重实践，让学生通过编程训练和实践更准确地理解量子计算的基本概念和基础理论。本书精选内容，配有大量图表、例题和习题，概念讲解清楚，逻辑性强，通俗易懂，入门门槛低，是初学量子计算和量子程序设计的理想教材，可作为高等院校相关专业本科生和研究生的教材，也可供广大从事量子信息科学研究的科技人员和学习量子程序设计的自学者参考。

This book systematically introduces the fundamentals and principles of quantum circuits and quantum programming. The selected content and programming examples aim to help students develop basic skills in quantum programming, debugging, and analysis so as to lay the foundation for future learning, research, and applications.

The book emphasizes both principles and practice, allowing students to understand the fundamental concepts and theories of quantum computing more accurately through programming exercises and practice. With elaborately selected content, abundant figures and tables, examples and exercises, the book provides clear explanations of concepts and strong logic in an easy-to-understand and barrier-free manner. It is an ideal textbook for beginners in quantum computing and quantum programming. It can be used as a textbook for undergraduate and graduate students in related majors at colleges and universities, as well as a reference for researchers in quantum information science and self-learners studying quantum programming.

About Author:

王震宇，中国人民解放军战略支援部队信息工程大学教授

Wang Zhenyu is a professor at the Information Engineering University.

机器人学（第四版）



Robotics (Fourth Edition)

作者：蔡自兴、谢斌

Author: CAI Zixing, XIE Bin

ISBN: 9787302598220

Publication Date: 2022-03-01

Page Count: 372

About the Book:

本书介绍机器人学的基本原理、关键技术及其应用。全书共12章，涉及机器人学的起源、发展、定义、特点、结构与分类，机器人学的数理基础、运动学、动力学与控制（包括位置控制、力控制和高级智能控制），机器人传感器、高层规划、轨迹规划和程序设计，以及机器人的应用和机器人学的展望等内容。全书与时俱进，全面反映国内外机器人学的进展，是一部高水平的机器人学教材与专著。

This book introduces the fundamental principles, key technologies, and applications of robotics. The book consists of 12 chapters, covering robotics' origins, development, definition, characteristics, structure and classification, mathematical foundations, kinematics, dynamics and control (including position control, force control, and advanced intelligent control), robot sensors, high-level planning, trajectory planning, and program design, as well as the applications and prospects of robotics. The book keeps abreast of time and comprehensively reflects the progress of robotics both in China and the world. It is a quality textbook and reference in the field of robotics.

About Author:

蔡自兴，国际IEEE院士和IEEE终身院士（Fellow）、国际导航与运动控制科学院院士、纽约科学院院士、联合国专家，中南大学信息科学与工程学院教授、博士生导师，被誉为“中国人工智能教育第一人”。

Cai Zixin is an International IEEE Fellow, IEEE Life Fellow, member of the International Academy of Navigation and Motion Control, member of New York Academy of Sciences, UN Expert, and professor and doctoral supervisor at the School of Information Science and Engineering, Central South University. He is known as the “First Man of Chinese Artificial Intelligence Education.”

软体机器人导论



Introduction to Soft Robotics

作者: 文力 王世强 著

Author: WEN Li, WANG Shiqiang

ISBN: 9787302601388

Publication Date: 2022/7/1

Page Count: 131

About the Book:

软体机器人是机器人研究的新兴、前沿研究方向。在综合大量文献资料的基础上, 结合作者多年来从事软体机器人研究的学术成果, 本书系统介绍了软体机器人领域的基础知识和前沿进展。全书共6章, 包括绪论, 软体机器人的 驱动与传感, 软体机器人的材料、设计与制造, 软体机器人的建模与控制, 软体机器人的应用, 软体机器人未来展望。每章都附有习题, 方便感兴趣的读者进一步钻研探索。本书可作为全国高等学校相关专业的本科生或研究生教材。

Soft robotics is an emerging and frontier research direction in robotics. Based on extensive literature and in combination with authors' academic achievements in soft robotics research over the years, this book systematically introduces the fundamental knowledge and advanced developments in the field of soft robotics. The book comprises six chapters, including an introduction, the actuation and sensing of soft robotics, materials, design, and manufacturing of soft robotics, modeling and control of soft robotics, applications of soft robotics, and the future prospects of soft robotics. Each chapter comes with exercises so that interested readers and further delve into the topic. This book can be used as a textbook for undergraduate or graduate students majoring in relevant fields in colleges and universities nationwide.

About Author:

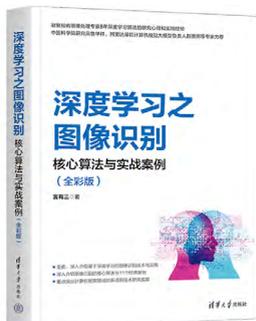
文力, 北京航空航天大学机械工程及自动化学院教授, 研究领域: 软体机器人、仿生机器人、机器智能。

王世强, 北京航空航天大学机械工程及自动化学院, 研究领域: 软体机器人仿生物理智能。

Wen Li is a professor at the School of Mechanical Engineering & Automation BUAA. His research areas include soft robotics, bionic robotics, and machine intelligence.

Wang Shiqiang works at the School of Mechanical Engineering & Automation BUAA. His research areas include soft robotics and bionic physical intelligence.

深度学习之图像识别：核心算法与实战案例（全彩版）



Deep Learning for Image Recognition: Core Algorithms and Practical Cases (Full Color Edition)

作者：言有三

Author: YAN Yousan

ISBN: 9787302635277

Publication Date: 2023/7/1

Page Count: 396

About the Book:

全书共9章：首先介绍深度学习的基础概念，包括神经网络基础知识和深度学习中的优化技术；然后系统介绍深度学习中与数据相关的知识；接着重点针对图像识别领域，介绍深度学习在图像分类、图像分割和目标检测3个领域的核心技术与应用；另外，还对深度学习模型的可视化进行详细介绍；最后以微信小程序平台为依托，介绍深度学习模型的部署。本书理论与实践结合，广度兼具深度，非常适合深度学习领域的相关技术人员与爱好者阅读。

This book consists of nine chapters. It starts with the basic concepts of deep learning, including the fundamentals of neural networks and optimization techniques in deep learning. It then systematically covers data-related knowledge in deep learning. Following that, it focuses on image recognition, presenting deep learning's core technologies and applications in the three fields of image classification, image segmentation, and object detection. In addition, it elaborates on the visualization of deep learning models. Finally, leveraging the WeChat Mini Program platform, the book delves into the deployment of deep learning models. Combining theory with practice, this book encompasses profound knowledge with an extensive breadth, highly suitable for professionals and enthusiasts in the field of deep learning.

About Author:

言有三，真名龙鹏，阿里云MVP，华为云MVP。先后在奇虎360人工智能研究院和陌陌深度学习实验室从事计算机视觉的相关工作，积累了丰富的传统图像处理算法和深度学习项目的研究和实战经验。

Yanyousan, originally named Long Peng, is an Alibaba Cloud MVP and Huawei Cloud MVP. Successively engaged in computer vision-related work in the Qihoo 360 Artificial Intelligence Institute and Momo Deep Learning Lab, he has accumulated rich experience in traditional image processing algorithms and deep learning projects.

算力网络详解 卷1：算网大脑



Computing Networks in Detail Volume 1: The Computing Network Brain

作者：马雷明、孙杰、欧阳晔

Author: MA Leiming, SUN Jie, OUYANG Ye

ISBN: 9787302623700

Publication Date: 2023/1/1

Page Count: 280

About the Book:

本书从算力网络的顶层系统设计出发，首先介绍了算力网络的核心功能，然后围绕算网大脑功能对关键技术进行了描述。第1、2章介绍算力网络技术发展背景与趋势，并深入讲解算力网络与云网的关系；第3章系统性地介绍算力网络的体系结构；第4章介绍算网运营交易技术；第5-9章详细讲解算网大脑的核心功能：算网一体编排、算网管理调度、算网智能运维、算网智能引擎和算网数字孪生；第10章介绍算力网络应用场景；第11章对算力网络的发展趋势做了展望。

Starting from the top-level system design of computing networks, this book introduces the core functions of computing networks and then elaborates on key technologies around the functions of the computing network brain. Chapters 1 and 2 provide an overview of the development background and trends of computing network technologies, along with an in-depth discussion of the relationship between computing networks and cloud networks. Chapter 3 systematically introduces the architecture of computing networks. Chapter 4 discusses the operational and transactional technologies of computing networks. Chapters 5 to 9 comprehensively explain the core functions of the computing network brain, including integrated orchestration, management and scheduling, intelligent operation and maintenance, intelligent engine, and digital twin of computing networks. Chapter 10 explores the application scenarios of computing networks, and Chapter 11 is an outlook on computing networks' future development.

About Author:

马雷明，亚信科技研发中心技术与规划专家。拥有10余年通信领域工作经验，负责算力网络、5G专网等产品研究与规划，对端到端网络系统有深刻理解。

孙杰，亚信科技研发中心云网技术与产品规划总监。拥有多年通信行业云网技术与产品规划经验，负责云网产品的整体技术架构设计与产品创新规划。

欧阳晔 博士，IEEE Fellow，Verizon Fellow，亚信科技首席技术官、高级副总裁。

Ma Leiming is a Technical and Planning Expert at Asaiinfo Research and Development Center. With over ten years of experience in the communication field, he is responsible for the research and planning of products like computing networks and 5G private networks, possessing a profound understanding of end-to-end network systems.

Sun Jie is the Director of Cloud Network Technology and Product Planning at Asaiinfo Research and Development Center. With years of experience in cloud network technology and product planning in the communication industry, he is responsible for the overall technical architecture design and product innovation planning of cloud network products.

Dr. Ouyang Ye, IEEE Fellow and Verizon Fellow, is the Chief Technology Officer and Senior Vice President at Asaiinfo.

算力网络详解 卷2：算网PaaS



Computing Networks in Detail Volume 2: The Computing Network PaaS

作者：苗森、黄德光、董育兵

Author: MIAO Sen, HUANG Deguang, DONG Yubing

ISBN: 9787302623717

Publication Date: 2023/1/1

Page Count: 312

About the Book:

本书围绕 PaaS 如何承载算力网络展开论述，帮助读者了解PaaS平台对算力网络的承载作用。本书的第1章和第2章是背景介绍，主要介绍算力网络发展背景和运营商IT 架构演进的历史；第3章-第9章讲算网PaaS，主要介绍PaaS平台在各个层面对算力网络的承载作用；第10章介绍磐基PaaS平台的一次东数西算实践；第11章是在算力网络场景下对PaaS未来演进的展望。

Centered around how PaaS hosts computing networks, this book helps readers understand PaaS platforms' role in hosting computing networks. Chapters 1 and 2 provide background introductions, focusing on the development background of computing networks and the historical evolution of operators' IT architecture. Chapters 3 to 9 discuss PaaS for computing networks, specifically detailing the role of PaaS platforms in hosting computing networks in various aspects. Chapter 10 presents a practical case of applying the Panji PaaS platform to bridge the gap between eastern and western regions in computing resources. Chapter 11 offers insights into the future evolution of PaaS in computing network scenarios.

About Author:

苗森，亚信科技研发中心PaaS资深产品经理。从事IT行业十余年，对分布式架构、微服务、云原生技术以及PaaS平台有着深入的理解。

黄德光，亚信科技研发中心PaaS平台资深架构师、产品专家。

董育兵，亚信科技研发中心资深产品解决方案工程师。深耕运营商领域PaaS 解决方案十余年。

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Dong Yubing is a Senior Product Solution Engineer at Asaiinfo Research and Development Center. He has been committed to PaaS solutions for operators for over ten years.

算力网络详解 卷3：算网大数据



Computing Networks in Detail Volume 1: The Big Data for Computing Networks

作者：罗峰、张东飞、高智芳

Author: LUO Feng, ZHANG Dongfei, GAO Zhifang

ISBN: 9787302623724

Publication Date: 2023/1/1

Page Count: 280

About the Book:

未来十年将是算力网络（简称算网）蓬勃发展的十年，未来算网大数据的发展重点将聚焦在边缘计算、分布式协同计算、数据编织、隐私计算等核心技术领域。本书共四篇 14 章：第一篇（第 1~3 章）介绍算力、算力网络的基本概念和算力网络驱动的大数据发展趋势；第二篇（第 4~7 章）介绍面向算力网络的大数据关键技术，包括边缘计算、分布式协同计算、数据编织、隐私计算等内容；第三篇（第 8~10 章）介绍大数据技术在算力网络中的具体应用；第四篇（第 11~14 章）介绍与算力网络结合的大数据应用场景及未来展望。

The coming decade will witness the flourishing of computing, and the development of big data for computing networks will focus on core technological areas such as edge computing, distributed collaborative computing, data fabric, and privacy computing. This book comprises four parts and 14 chapters: Part One (Chapters 1-3) introduces the basic concepts of computability and computing networks, along with the development trends of big data driven by computing networks. Part Two (Chapters 4-7) covers key technologies for big data in computing networks, including edge computing, distributed collaborative computing, data fabric, and privacy computing. Part Three (Chapters 8-10) presents specific applications of big data technology in computing networks. Part Four (Chapters 11-14) explores the big data applications integrated with computing networks and the future expectations.

About Author:

罗峰，亚信科技研发中心数据产品规划总监，负责大数据产品创新与规划工作。

张东飞，亚信科技研发中心规划与研发工程师，长期从事大数据领域的规划与设计工作。

高智芳，亚信科技研发中心架构师。

Luo Feng is the Director of Data Product Planning at Asiainfo Research and Development Center, responsible for innovation and planning of big data products.

Zhang Dongfei is a Planning and R&D Engineer at Asiainfo Research and Development Center. He has long been engaged in the planning and design in the big data field.

Gao Zhifang is an Architect at Asiainfo Research and Development Center.

遥感脑理论及应用



Remote Sensing Brain Theory and Applications

作者：焦李成、侯彪、刘芳、杨淑媛、王爽、朱浩、马文萍、张向荣
Author: JIAO Licheng, HOU Biao, LIU Fang, YANG Shuyuan,
WANG Shuang, ZHU Hao, MA Wenping, ZHANG Xiangrong
ISBN: 9787302627630
Publication Date: 2023/5/1
Page Count: 400

About the Book:

针对海量、动态、多维、异构的高分辨率卫星遥感观测数据，通过对高分辨压缩信息的获取（“感”），建立多尺度几何分析的建模（“知”），完成特征的学习和分析（“用”），从而提高对地观测系统的综合利用能力，这已成为遥感技术发展的必然趋势。全书共十五章，系统地论述了遥感脑的理论基础、感知与解译应用及遥感脑系统。第一至第四章主要介绍遥感技术和类脑启发的研究背景及意义，压缩感知基础、遥感成像机理与特性、深度神经网络的进展等；第五至第十二章主要介绍作者团队在遥感脑感知与解译两方面的具体相关应用成果；第十三至第十四章主要介绍作者团队研发的遥感脑系统；第十五章主要是展望和总结该领域的主要公开问题。本书适用于涉及深度学习和图像处理类高年级本科生和研究生。

In response to the massive, dynamic, multi-dimensional, and heterogeneous high-resolution satellite remote sensing observation data, improving the comprehensive utilization capability of earth observation system by acquiring high-resolution compressed information (“sensing”), establishing multi-scale geometric analysis modeling (“knowing”), and learning and analyzing features (“using”) has become an inevitable trend in the development of remote sensing technology. This book, consisting of fifteen chapters, systematically discusses the theoretical foundation of the remote sensing brain, sensing and interpretation applications, as well as the remote sensing brain system. Chapters one to four primarily introduce the research background and significance of remote sensing technology and brain-inspired approaches, compressed sensing fundamentals, mechanisms and characteristics of remotely-sensed imaging, and advancements in deep neural networks. Chapters five to 12 mainly present specific application results of the authors’ team related to the sensing and interpretation aspects of the remote sensing brain. Chapters 13 to 14 mainly introduce the remote sensing brain system developed by the authors’ team. Chapter 15 primarily provides an outlook and summary of the major disclosed issues in the field. This book is suitable for senior undergraduate and graduate students involved in deep learning and image processing.

About Author:

焦李成，欧洲科学院院士、俄罗斯自然科学院院士、中国人工智能学会副理事长。
Jiao Licheng is a European Academy of Sciences Fellow, academician of the Russian Academy of Natural Sciences, Vice Chairman of the Chinese Association for Artificial Intelligence.

智能汽车宝盒之钥——Android Automotive车载信息系统 (AAOS)



Key to the Smart Car Box – Android Automotive OS (AAOS)

作者：樊祖杰、李巍、沈卢斌

Author: FAN Zujie, LI Wei, SHEN Lubin

ISBN: 9787302607540

Publication Date: 2022/9/1

Page Count: 292

About the Book:

本书详细介绍了Android Automotive OS的设计与实现，内容涵盖了系统开发、应用开发、产品管理等各层面的知识。全书共15章。第1章介绍了车载信息娱乐系统的发展历程及主流的操作系统；第2章介绍了与汽车相关的Android产品和版本变迁；第3章介绍了开发环境搭建、工具使用以及源码的获取；第4~12章从系统框架的角度分析了Android Automotive OS中主要服务的实现原理和用法；第13章讲解了语音、导航和媒体这三类应用的开发；第14、15章介绍了产品管理的相关内容，包括应用集成、兼容性测试。本书结构清晰，实例丰富，通过通俗易懂的文字和丰富的配图，能够让读者深入了解Android Automotive OS的设计思想。

This book provides a detailed introduction to the design and implementation of Android Automotive OS, covering various aspects such as system development, application development, and product management. The book comprises 15 chapters. Chapter 1 introduces the development history of in-vehicle infotainment systems and mainstream operating systems. Chapter 2 discusses Android products and version updates related to automobiles. Chapter 3 explains setting up the development environment, using tools, and acquiring source codes. Chapters 4 to 12 analyze the implementation principles and usage of the main services in Android Automotive OS from a system framework perspective. Chapter 13 covers the development of voice, navigation, and media applications. Chapters 14 and 15 introduce content related to product management, including application integration and compatibility testing.

The book has an explicit structure and numerous examples. Through easy-to-understand language and abundant illustrations, readers can gain an in-depth understanding of the design philosophy behind Android Automotive OS.

About Author:

樊祖杰，在国内外多家一线主机厂担任安卓系统开发工程师和电子电气平台架构师，有多年移动及车载操作系统的研发经验。

Fan Zujie has served as an Android system development engineer and electronic/electrical platform architect at various prominent domestic and international leading OEMs.

数字认证技术



Digital Authentication Technology

作者：朱岩、陈娥

Author: ZHU Yan, CHEN E

ISBN: 9787302604167

Publication Date: 2022/8/1

Page Count: 200

About the Book:

作者以多年本科生与研究生教学实践为基础编写了教材《数字认证技术》。本书分为基础篇和高级篇两篇，共12章，内容包括数字认证技术基础、代数与密码基础、认证理论基础、数据完整性验证、数字来源认证与数字签名、身份认证、多媒体认证、生物认证等，覆盖了网络空间安全专业本科生和研究生教学的主要知识点。本书的特色是注重数字认证技术的系统性和培养学生安全协议设计能力。为了方便本科生直观地理解各种数字认证方案，本书有大量翔实的应用实例供其参考，并有相当数量的课后习题可供思考和练习。本书可作为网络空间安全学科“数字认证技术”及相关课程的教材或参考书，也可作为应用型本科和成人高校相关专业的教材。

Based on years of experience in teaching undergraduate and graduate students, the authors have written the textbook *Digital Authentication Technology*. The book is divided into two parts: the basics and the advanced, totaling 12 chapters, covering the basics of digital authentication technology, algebra and cryptography fundamentals, authentication theory fundamentals, data integrity verification, digital source authentication and digital signatures, identity authentication, multimedia authentication, and biometric authentication. It covers the main knowledge points for undergraduate and graduate teaching in cybersecurity. The book is characterized by its emphasis on the systematicness of digital authentication technology and the cultivation of students' abilities in security protocol design. To enable undergraduate students to intuitively understand various digital authentication schemes, the book provides numerous detailed application examples for reference, along with a substantial number of exercises for after-class reflection and practice. The book can serve as a textbook or reference book for "Digital Authentication Technology" in the field of cybersecurity and related courses. It is also suitable for relevant majors in applied undergraduate and adult education institutions.

About Author:

朱岩，北京科技大学，计算机与通信工程学院教授。感兴趣的研究领域包括：信息安全、密码学、区块链等。

Zhu Yan is a professor at the School of Computer & Communication Engineering at the University of Science and Technology Beijing. His research interests include information security, cryptography, and blockchain.

汽车自动驾驶



Automotive Autonomous Driving

作者：杨殿阁、黄晋、江昆、李升波、王红、许庆、杨蒙蒙、于伟光、高博麟
 Author: YANG Diange, HUANG Jin, JIANG Kun, LI Shengbo, WANG Hong, XU Qing, YANG Mengmeng, YU Weiguang, GAO Bolin
 ISBN: 9787302583585
 Publication Date: 2022/7/1
 Page Count: 524

About the Book:

本书全面、系统地讲解了汽车自动驾驶相关技术，从汽车自动驾驶技术概述和开发基础开始，系统地论述了汽车自动驾驶涉及的车联网、地图与定位、融合感知、决策规划、车辆控制以及测试与评价技术，融入了当前汽车自动驾驶研究领域与商用领域的前沿技术。本书内容涉及面较广，且面向汽车自动驾驶的实际开发过程。本书可作为高等院校本科高年级车辆工程及其他相关专业的教材，也可作为教师及相关领域研究人员和技术人员的参考书。

This book comprehensively and systematically explains technologies related to autonomous driving. Starting from an overview of autonomous driving technology and development basics, it systematically discusses topics such as the Internet of Vehicles, mapping and localization, perception fusion, decision-making and planning, vehicle control, as well as testing and evaluation techniques involved in autonomous driving. It incorporates cutting-edge technologies from both the research and commercial domains of autonomous driving. The book covers a wide range of topics and is oriented toward the actual development processes of autonomous driving. It can serve as a textbook for senior undergraduate programs in vehicle engineering and other related disciplines in colleges and universities. It is also a valuable reference for teachers, researchers, and professionals in related fields.

About Author:

杨殿阁，教授，博导，清华大学原车辆与运载学院院长，规划处处长、学科办主任。

Yang Diange is a professor, doctoral supervisor, former Dean of the School of Vehicle and Mobility, Tsinghua University, Director of the Office of Planning, and Head of the Discipline Office.

深入理解分布式共识算法



In-depth Understanding of Distributed Consensus Algorithms

作者：释慧利

Author: SHI Huili

ISBN: 9787302630036

Publication Date: 2023/3/1

Page Count: 320

About the Book:

本书共10章，分为4篇。第1篇分布式相关概念与定理，主要介绍集群、状态机和共识等相关概念，以及BASE和CAP理论等相关知识；第2篇常见分布式共识算法原理与实战，主要介绍二阶段提交（2PC）协议、三阶段提交（3PC）协议、Paxos、ZAB和Raft等相关知识；第3篇Paxos变种算法集合，主要介绍Paxos变种算法的发展历程，以及Fast Paxos和EPaxos等变种算法的相关知识；第4篇番外——FLP定理，简要介绍FLP定理的相关知识。《深入理解分布式共识算法》按照“背景知识→运行过程→算法模拟→证明脉络”的过程层层推进，介绍算法知识，并为每种算法提供经典类库源码解析。

The book consists of ten chapters and is divided into four parts. The first part talks about concepts and theorems related to distribution, mainly introducing concepts like clusters, state machines, and consensus, as well as relevant knowledge about BASE and CAP theories. The second part covers principles and practical applications of common distributed consensus algorithms, including the two-phase commit (2PC) protocol, three-phase commit (3PC) protocol, Paxos, ZAB, and Raft. The third part is a collection of Paxos variants, focusing on the development history of Paxos variants and introducing variants like Fast Paxos and EPaxos. The fourth part is an additional part on the FLP theorem, briefly explaining the FLP theorem. The book *In-depth Understanding of Distributed Consensus Algorithms* progressively guides readers through “background knowledge→running process→algorithm simulation→proof outline,” introducing algorithmic knowledge and parsing classic library source code for each algorithm.

About Author:

释慧利，Java高级工程师，技术负责人。互联网金融行业从业多年，腾讯云开发者社区超人气作者，有丰富的中台和中间件项目开发经验。

Shi Huili is a senior Java engineer and technical leader with years of experience in the internet finance industry. He is a popular author in the Tencent Cloud Developer Community and possesses rich experience in middle-end and middleware project development.

算法竞赛



Algorithm Competition

作者：罗勇军、郭卫斌

Author: LUO Yongjun, GUO Weibin

ISBN: 9787302615217

Publication Date: 2022/1/1

Page Count: 732

About the Book:

本书是一本全面、深入解析与算法竞赛有关的数据结构、算法、代码的计算机教材。本书包括十个专题：基础数据结构、基本算法、搜索、高级数据结构、动态规划、数论和线性代数、组合数学、计算几何、字符串和图论。本书覆盖了绝大多数算法竞赛考点。本书解析了算法竞赛考核的数据结构、算法；组织了每个知识点的理论解析和经典例题；给出了简洁、精要的模板代码；通过明快清晰的文字、透彻的图解，实现了较好的易读性。本书的读者对象是参加算法竞赛的中学生和大学生、准备面试IT企业算法题的求职者、需要提高算法能力的开发人员，以及对计算机算法有兴趣的广大科技工作者。

This book is a comprehensive computer textbook that provides an in-depth analysis of data structures, algorithms, and code related to algorithm competitions. The book includes ten topics: basic data structures, fundamental algorithms, search, advanced data structures, dynamic programming, number theory and linear algebra, combinatorial mathematics, computational geometry, strings, and graph theory. It covers the majority of topics in algorithm competitions.

The book delves into the data structures and algorithms assessed in algorithm competitions, offering theoretical explanations and classic examples for each knowledge point. It provides concise and essential template codes and is quite readable, with lively and clear language and thorough graphic explanations. The book is intended for secondary school and university students participating in algorithm competitions, job seekers preparing for IT company algorithm tests, developers aiming to enhance their algorithmic skills, and general technology professionals interested in computer algorithms.

About Author:

罗勇军，博士，华东理工大学计算机系教师，长期从事算法竞赛的相关工作。

Dr. Luo Yongjun is a faculty member in the Department of Computer Science at East China University of Science and Technology. He has long been engaged in work related to algorithm competition.

非曼哈顿结构下超大规模集成电路布线理论与算法

Theory and Algorithm for Very Large Scale Integration Routing in Non-Manhattan Architecture



作者: 刘耿耿、黄兴、郭文忠

Author: LIU Gengeng, HUANG Xing, GUO Wenzhong

ISBN: 9787302599449

Publication Date: 2022-04-01

Page Count: 348

About the Book:

本书系统讨论了非曼哈顿结构下超大规模集成电路布线设计的理论与算法,介绍了超大规模集成电路相关定义、研究现状,并提出了对未来研究方向的展望,侧重于介绍非曼哈顿结构Steiner树布线算法的构建,其中布线树考虑包括线长驱动、时延驱动、单层绕障、多层绕障、Slew约束等因素,设计了包括混合转换、多阶段转换、预处理、局部处理、基于整数线性规划和划分等诸多有效策略,从而构造多种高效的非曼哈顿结构下的布线器。本书还介绍了应用于超大规模集成电路布线问题的群智能技术。

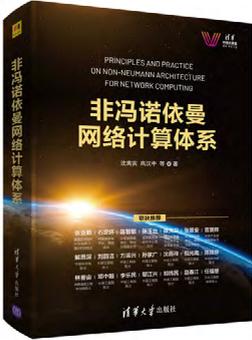
This book systematically discusses the theory and algorithm for very large scale integration routing in non-Manhattan architecture, introduces the definition and current research progress related to very large scale integration, and presents an outlook on future research directions. It highlights the building of algorithms for Steiner tree, a non-Manhattan architecture. Taking into account the factors including wire length, timing, single-layer obstacle avoiding, multi-layer obstacle avoiding, and Slew constraints, the book proposes many effective strategies including hybrid transformation, multi-stage transformation, preprocessing, local processing, integer linear programming and partitioning to construct a variety of efficient routers in non-Manhattan architecture. This book also introduces swarm intelligence techniques for the very large scale integration routing.

About Author:

刘耿耿, 副教授, 主要从事计算智能及其应用、集成电路设计算法、机器学习等方面的研究。

LIU Gengeng is an associate professor mainly engaged in research on computational intelligence and its applications, integrated circuit design algorithms, and machine learning.

非冯诺依曼网络计算体系



Principles and Practice on Non-Neumann Architecture for Network Computing

作者：沈寓实、高汉中等

Author: SHEN Yushi, GAO Hanzhong, et al.

ISBN: 9787302567950

Publication Date: 2021/3/1

Page Count: 512

About the Book:

非冯诺依曼网络计算体系的核心是扬弃传统冯诺依曼结构和互联网基础协议，以一种可无限扩展、基于流水线的新一代异构网络计算架构实现计算、通信、存储的融合，建立人工智能时代的网络计算通用平台，智能分配带宽和计算资源，根本性突破算力瓶颈，满足高效实时、高并发和安全可靠的网络计算需求。本书还指出了一条完整清晰的技术路线和渐进有序的实践路径，包括从软硬件结合的计算架构入手，到大规模数据中心的改造，从小规模边缘节点间的融合计算、到最后实现全网统一，真正意义上实现可无限拓展的大一统网络计算机梦想。本书提出的非冯诺依曼网络计算体系是对计算机架构、大数据储存、宽带网络、网络安全和互联网应用等各方面的颠覆性整体解决方案。

The Non-Neumann framework involves abandoning the traditional von Neumann architecture and foundational Internet protocols, implementing a new generation of infinitely scalable, pipeline-based heterogeneous network computing architecture to integrate computation, communication, and storage, establish a universal network computing platform for the era of AI, and intelligently allocate bandwidth and computational resources. It will fundamentally break through computational bottlenecks and meet the demands for efficient, real-time, high-concurrency, secure, and reliable network computing. The book also outlines a complete and clear technical roadmap and a progressive and orderly implementation path. From the combination of software and hardware in computing architecture to the transformation of large-scale data centers, from the fusion-based computation of small-scale edge nodes to ultimately achieving a unified network, the dream of an infinitely scalable unified network computer is genuinely realized. The non-Neumann network computing system proposed in this book is a disruptive holistic solution for computer architecture, big data storage, broadband networks, network security, and Internet applications.

About Author:

沈寓实，博士，MBA，教授，清华大学研究员、智能网络计算实验室主任。具有20年以上ICT领域科研、研发和管理经验。

Dr. Shen Yushi is an MBA, professor. He is a researcher at Tsinghua University and Dean of Tsinghua Intelligent Network Computing Laboratory. He has over 20 years of research, development, and management experience in the ICT field.

数学要素 (全彩图解 + 微课 + Python编程)



Elements of Mathematics

作者: 姜伟生

Author: JIANG Weisheng

ISBN: 9787302628507

Publication Date: 2023/5/1

Page Count: 500

About the Book:

本书打破数学板块的藩篱，将算数、代数、线性代数、几何、解析几何、概率统计、微积分、优化方法等板块有机结合在一起。从加、减、乘、除四则运算讲起，主要内容包括：第1、2章讲解向量和矩阵的基本运算；第3章讲解常用几何知识；第4章讲解代数知识；第5、6两章介绍坐标系；第7、8、9三章介绍解析几何；第10章到第14章都是围绕函数展开；第15章到第19章讲解微积分以及优化问题内容；第20、21两章是概率统计入门；本书最后四章以线性代数收尾。本书读者群包括所有在工作中应用数学的朋友。

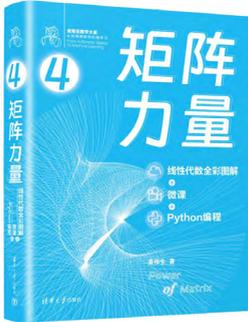
This book breaks through the barriers between different mathematical fields and combines arithmetic, algebra, linear algebra, geometry, analytic geometry, probability statistics, calculus, optimization methods, and other subjects together. Starting from addition, subtraction, multiplication, and division, the main content includes: Chapters 1 and 2 explain the basic operations of vectors and matrices; Chapter 3 introduces common geometric knowledge; Chapter 4 explains algebraic knowledge; Chapters 5 and 6 introduce coordinate systems; Chapters 7, 8, and 9 focus on analytic geometry; Chapters 10 to 14 revolve around functions; Chapters 15 to 19 explain calculus and optimization problems; Chapters 20 and 21 are an introduction to probability and statistics; and the last four chapters of the book conclude with linear algebra. The target audience of this book includes anyone who applies mathematics in their work.

About Author:

姜伟生，博士，FRM，热爱知识可视化和开源分享。自2022年8月开始，在GitHub上开源“鸢尾花书”学习资源，截至2023年4月，已经分享2000多页PDF、2000多幅矢量图、约1000个代码文件，全球读者数以万计。

Dr. Jiang Weisheng FRM is a diligent problem solver who loves knowledge visualization and open-source sharing. Starting from August 2022, he has been sharing learning resources of "Iris Book" on GitHub, and as of April 2023, he has shared over 2000 pages of PDFs, more than 2000 vector graphics, and about 1000 code files, with tens of thousands of readers around the world.

矩阵力量（线性代数全彩图解 + 微课 + Python编程）



Power of Matrix

作者：姜伟生

Author: JIANG Weisheng

ISBN: 9787302632511

Publication Date: 2023/5/1

Page Count: 570

About the Book:

数据科学和机器学习已经深度融合到我们生活的方方面面，而数学正是开启未来大门的钥匙。为了让大家学数学、用数学，甚至爱上数学，在创作这套书时，作者尽量克服传统数学教材的各种弊端，让大家学习时有兴趣、看得懂、有思考、更自信、用得着。

本系列丛书有三大板块——编程、数学、实践。数据科学、机器学习的各种算法离不开数学，本册《矩阵力量》是“数学”板块的第2本，主要介绍常用线性代数工具。任何数学工具想要从一元推广到多元，比如多元微积分、多元统计，都绕不开线性代数。

本书共25章内容，可以归纳为7大板块：向量、矩阵、向量空间、矩阵分解、微积分、空间几何、数据。本书在讲解线性代数工具时，会穿插介绍其在数据科学和机器学习领域的应用场景，让大家学以致用。本书读者群包括所有在工作中应用数学的朋友。

Data science and machine learning have deeply integrated into various aspects of our lives, and mathematics is the key to unlocking the door to the future. In order to make everyone learn and even fall in love with mathematics, the author of this book series tries to overcome the various drawbacks of traditional mathematical textbooks, making the learning process interesting, understandable, thought-provoking, more confident, and applicable.

The book series is divided into three main sections: programming, mathematics, and practice. Various algorithms of data science and machine learning cannot be separated from mathematics. "Matrix Power," as the second book of the "Mathematics" section, mainly introduces commonly used linear algebra tools. Any mathematical tool that wants to expand from univariate to multivariate, such as multivariate calculus and multivariate statistics, cannot avoid linear algebra. The book consists of 25 chapters and can be classified into seven main sections: vectors, matrices, vector spaces, matrix decomposition, calculus, spatial geometry, and data.

When explaining linear algebra tools, the book will also discuss their applications in the fields of data science and machine learning, enabling readers to apply what they learn.

The target audience of this book includes anyone who applies mathematics in their work.

About Author:

姜伟生，博士，FRM，热爱知识可视化和开源分享。自2022年8月开始，在GitHub上开源“鸢尾花书”学习资源，截至2023年4月，已经分享2000多页PDF、2000多幅矢量图、约1000个代码文件，全球读者数以万计。

Dr. Jiang Weisheng FRM is a diligent problem solver who loves knowledge visualization and open-source sharing. Starting from August 2022, he has been sharing learning resources of "Iris Book" on GitHub, and as of April 2023, he has shared over 2000 pages of PDFs, more than 2000 vector graphics, and about 1000 code files, with tens of thousands of readers around the world.

计算复杂性理论

Theory of Computational Complexity



作者：傅育熙

Author: FU Yuxi

ISBN: 9787302627982

Publication Date: 2023/5/1

Page Count: 392

About the Book:

本书是一本介绍计算复杂性理论的基础教材，内容包括时间复杂性、空间复杂性、NP-理论、多项式谱系、电路复杂性、随机计算及去随机、计数复杂性、交互证明系统、PCP定理、近似计算与不可近似性。

本书的主要读者群是高年级本科生、硕士生、博士生，以及希望了解（更多）计算复杂性理论的教师和科研工作者。本书可用于以下课程：（1）面向高年级本科生、研究生的“计算复杂性理论导论”课程，内容涵盖前3章；（2）面向研究生的“计算复杂性理论高等议题”课程，内容涵盖后3章；（3）面向高年级本科生、研究生的“算法理论”课程，涵盖第4章、第6章中有关随机算法和去随机、近似算法和不可近似性的内容；（4）面向高年级本科生、研究生的“计算理论”课程，以第1章的内容为核心，并根据学分多少和授课对象不同做适当补充。

This is a basic textbook about computational complexity theory, which includes time complexity, space complexity, NP theory, polynomial hierarchy, circuit complexity, stochastic computation and derandomization, counting complexity, interactive proof systems, PCP theorem, and approximate computation and inapproximability.

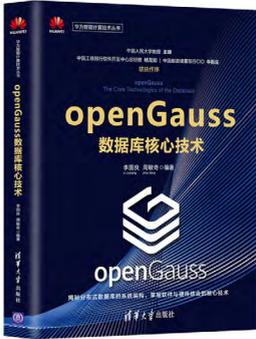
This book aims for senior undergraduate, graduate, and Ph.D. students, as well as teachers and researchers interested in learning more about computational complexity theory. The book can be used in the following courses: (1) “Introduction to Computational Complexity Theory” for senior undergraduate and graduate students, covering the content of the first three chapters; (2) “Advanced Topics in Computational Complexity Theory” for graduate students, covering the content of the last three chapters; (3) “Algorithm Theory” for senior undergraduate and graduate students, covering relevant content on stochastic computation, derandomization, approximate computation, and inapproximability in Chapters 4 and 6; (4) “Computational Theory” for senior undergraduate and graduate students, centered around Chapter 1, with appropriate supplementation based on credits and the target audience.

About Author:

傅育熙，上海交通大学计算机科学与工程系，教授；男，60岁，国家杰出青年科学基金获得者，教育部计算机专业教学指导委员会副主任委员，英国曼彻斯特大学博士，研究兴趣：并行理论及应用。

Fu Yuxi is a professor in the Department of Computer Science and Engineering at Shanghai Jiao Tong University. He is a 60-year-old male. He has received the National Science Fund for Distinguished Young Scholars and serves as the Deputy Director of the Teaching Guiding Committee for Computer Majors of the Ministry of Education. He obtained his Ph.D. from the University of Manchester, UK. His research interests include parallel theory and applications.

openGauss数据库核心技术



openGauss Database The Core Technologies of the Database

作者：李国良、周敏奇

Author: LI Guoliang, ZHOU Minqi

ISBN: 9787302554530

Publication Date: 2020/7/1

Page Count: 332

About the Book:

本书系统论述了openGauss数据库理论、技术及应用。本书共11章,首先介绍数据库发展历史,包括传统的网状数据库、层次数据库、关系数据库、NoSQL数据库、NewSQL数据库、云数据库、多模数据库、分布式数据库等。其次介绍结构化查询语言(SQL)、SQL语法、存储过程、触发器、游标、数据库设计规范和E-R模型等数据库基础知识。再次介绍数据库未来发展趋势,包括新硬件、不同部署形态、新应用对数据库的影响。最后重点介绍openGauss的核心技术,包括openGauss的核心架构、面向鲲鹏和昇腾等新硬件的优化技术、SQL引擎、执行器技术、数据库存储技术、数据库事务机制、数据库安全、数据库自治技术等。为方便读者掌握数据库教学内容,本书每章都提供了小结和习题(含答案)。

This book systematically discusses the theory, technology, and applications of the openGauss database. The book has 11 chapters in total. It begins by introducing the history of database development, including traditional network databases, hierarchical databases, relational databases, NoSQL databases, NewSQL databases, cloud databases, multi-model databases, and distributed databases. It then covers fundamental database knowledge such as Structured Query Language (SQL), SQL syntax, stored procedures, triggers, cursors, database design specifications, and E-R models. After that, it explores the future trends of database development, including the impact of new hardware, different deployment forms, and new applications on databases. Finally, the core technologies of openGauss are highlighted, including its core architecture, optimizations for new hardware like Kunpeng and Ascend, SQL engine, actuator technology, database storage technology, database transaction mechanisms, database security, and autonomous database technology. To facilitate readers to master database teaching content, each chapter provides summaries and exercises (with answers).

About Author:

李国良 清华大学计算机系教授。

周敏奇 华为数据库技术专家,曾任华东师范大学软件学院副教授。

Li Guoliang is a professor in the Department of Computer Science and Technology, Tsinghua University.

Zhou Minqi is an expert in database technology expert at Huawei, formerly an associate professor at the Software Engineering Institute of East China Normal University.

鲲鹏处理器架构与编程



Architecture and Programming of Kunpeng Processor

作者：戴志涛、刘健培

Author: DAI Zhitao, LIU Jianpei

ISBN: 9787302562689

Publication Date: 2020/9/1

Page Count: 384

About the Book:

华为海思设计的鲲鹏（Kunpeng）920系列芯片是兼容ARMv8-A架构的高性能处理器片上系统，也是华为“算、存、传、管、智”五个产品系列构成的鲲鹏芯片家族的核心产品。本书首先介绍高性能处理器与服务器的技术背景，然后总结了ARMv8-A处理器的体系结构。在此基础上，重点讨论鲲鹏920处理器片上系统的体系结构及其软件生态和架构。为方便读者理解鲲鹏920处理器片上系统的应用场景，本书最后还给出了基于鲲鹏920处理器片上系统的服务器软件的安装、配置、开发与应用案例。

本书可以作为读者了解和应用鲲鹏920处理器片上系统的参考用书，特别适合有兴趣使用鲲鹏920处理器片上系统的软件构架师、软件工程师和需要在鲲鹏920处理器片上系统上开发、优化应用程序的应用工程师和调优工程师。

The Kunpeng 920 series chip designed by Huawei Hisilicon is a high-performance processor System on Chip (SoC) compatible with the ARMv8-A architecture. It is the core product of the Kunpeng chip family, which is part of Huawei's five-product series of “computing, storage, transmission, management, and intelligence.” The book first introduces the technical background of high-performance processors and servers and then summarizes the architecture of ARMv8-A processors. On this basis, it focuses on discussing the architecture of Kunpeng 920 SoC, its software ecosystem, and its structure. To help readers understand the application scenarios of the Kunpeng 920 SoC, the book provides installation, configuration, development, and application cases of server software based on the Kunpeng 920 SoC at the end.

This book can serve as a reference for readers to understand and apply the Kunpeng 920 SoC. It is especially suitable for software architects and software engineers who are interested in using the Kunpeng 920 SoC, as well as application engineers and optimization engineers who have to develop and optimize applications on the Kunpeng 920 SoC.

About Author:

戴志涛：北京邮电大学计算机学院教授，北京市高等教育教学名师，北京邮电大学嵌入式系统与智能硬件创新实践基地主任。

Dai Zhitao is a professor at the School of Computer Science, Beijing University of Posts and Telecommunications. He is a Beijing Higher Education Education Outstanding Teacher and the Director of the Innovation Practice Base for Embedded Systems and Intelligent Hardware at Beijing University of Posts and Telecommunications. He teaches undergraduate and graduate courses including “Computer Organization Principles” and “Embedded Systems.”

MindSpore深度学习高阶技术



Advanced Deep Learning Technologies with MindSpore

作者：陈雷

Author: CHEN Lei

ISBN: 9787302589587

Publication Date: 2021/9/1

Page Count: 336

About the Book:

本书系统介绍深度学习的高阶技术,并基于MindSpore AI计算框架进行实践。全书共分10章,内容涵盖数据处理、网络构建、训练与推理性能优化、模型安全与隐私、模型可靠性、可解释AI、AI中的公平性问题、数据驱动AI建模、AI求解科学计算方程、AI加速科学方法等内容。为便于读者学习,书中还给出了基于MindSpore实现的关于深度学习高阶技术的示例代码。

本书在深度学习的理论基础上结合MindSpore**开源技术,扩大了MindSpore使用范围,可以作为普通高等学校人工智能、智能科学与技术、计算机科学与技术、电子信息工程、自动化等专业的本科生及研究生教材,也适合作为从事深度学习相关工作的软件开发工程师与科研人员学习的参考用书。

This book provides a systematic introduction to advanced techniques in deep learning and practical applications based on the MindSpore AI computing framework. The book is divided into 10 chapters, covering topics such as data processing, network construction, training and inference performance optimization, model security and privacy, model reliability, explainable AI, fairness issues in AI, data-driven AI models, solving scientific computing equations with AI, and accelerating scientific methods with AI. To assist readers in learning, the book also includes example code for advanced deep learning techniques implemented based on MindSpore.

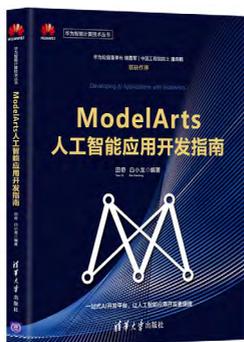
Combining MindSpore** open-source technology with the theoretical foundation of deep learning, this book expands MindSpore's applicability. It can serve as a textbook for undergraduate and graduate students in AI, intelligent science and technology, computer science and technology, electronic information engineering, automation, and other majors. It is also suitable as a reference guide for software development engineers and researchers engaged in deep learning-related work.

About Author:

陈雷, 香港科技大学计算机科学与工程系教授, 研究方向包括数据驱动AI、人力机器学习、知识图谱等。

Chen Lei is a professor in the Department of Computer Science and Engineering at the Hong Kong University of Science and Technology. His research interests include data-driven AI, human-machine learning, knowledge graphs and etc.

ModelArts人工智能应用开发指南



Developing AI Applications with ModelArts

作者：田奇、白小龙

Author: TIAN Qi, BAI Xiaolong

ISBN: 9787302563273

Publication Date: 2020/9/1

Page Count: 288

About the Book:

本书主要围绕人工智能平台ModelArts和人工智能应用开发流程，介绍基本概念、关键模块以及典型的场景化应用开发案例。全书共分为三篇：第一篇人工智能应用开发概述(第1章和第2章)，介绍了人工智能技术、应用、平台，以及人工智能应用快速开发流程；第二篇人工智能应用开发方法(第3章~第9章)，介绍了人工智能应用开发全流程及其子流程，包括数据准备、算法选择和开发、模型训练、模型评估和调优、应用生成、应用评估和发布、应用维护；第三篇人工智能应用开发场景化实践(第10章~第12章)，介绍了企业级人工智能平台、面向复杂行业的自动化人工智能系统、基于端→边→云协同的人工智能平台及应用开发。

Revolving around the AI platform ModelArts and the development process of AI applications, this book introduces fundamental concepts, key modules, and typical application development scenarios. The book is divided into three parts: The first part is an overview of AI application development (Chapters 1 and 2), introducing AI technology, applications, platforms, and the rapid development process of AI applications. The second part details the development methods for AI applications (Chapters 3 to 9), covering the entire process and sub-processes of AI application development. This includes data preparation, algorithm selection and development, model training, model evaluation and optimization, application generation, application assessment and release, and application maintenance. The third part presents practical scenarios for AI application development (Chapters 10 to 12), discussing enterprise-level AI platforms, automated AI systems for complex industries, and AI platforms and application development based on edge cloud collaboration.

About Author:

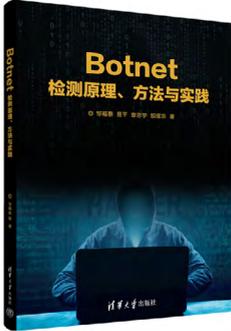
田奇，华为云人工智能领域首席科学家，IEEE Fellow，国家自然科学基金海外杰青，中国科学院海外评审专家。主导视觉方向的前沿研究。拥有多项美国专利，在计算机视觉及多媒体方向权威期刊及会议上发表文章550多篇，谷歌学术引用21800多次，7篇论文获最佳论文奖或最佳学生论文。

白小龙，华为云机器学习和深度学习技术专家、ModelArts产品架构师，浙江大学工学博士。

Tian Qi is the chief scientist of Huawei Cloud's artificial intelligence field. He is an IEEE Fellow, a recipient of the Excellent Young Scientists Fund (overseas) of the National Natural Science Foundation of China, and an overseas expert reviewer for the Chinese Academy of Sciences.

Bai Xiaolong is a technological expert in machine learning and deep learning at Huawei Cloud and a product architect for ModelArts. He received a Ph.D. in Engineering from Zhejiang University.

Botnet检测原理、方法与实践



Botnet Detection: Principles, Methods and Practices

作者：邹福泰、易平、章思宇、胡煜宗

Author: ZOU Futai, YI Ping, ZHANG Siyu, HU Yuzong

ISBN: 9787302618614

Publication Date: 2023/5/1

Page Count: 208

About the Book:

本书从原理、方法和实践应用三个角度出发，介绍了僵尸网络的组成和行为特征以及检测僵尸网络的技术原理，分别从僵尸网络的DNS失效行为、僵尸网络的DGA恶意域名、DNS隐蔽隧道和基于深度学习特征的角度介绍了目前学术界与工业界对于僵尸网络的检测原理、方法以及实践效果，并简要介绍了针对僵尸网络追踪溯源的实践应用。本书还详细介绍了如何将知识图谱、反馈学习、图神经网络、生成式对抗网络等前沿技术应用于僵尸网络检测，进一步提高检测精度与告警能力。

From the three perspectives of principles, methods, and practical applications, this book introduces the botnet's composition, behavior characteristics, and techniques for detecting botnets. It discusses the DNS failure behavior of botnets, malicious domains generated by DGA in botnets, DNS covert channels, and deep learning features. Through these perspectives, the book presents both academic and industrial perspectives on the detection principles, methods, and practical effects of botnets and briefly introduces practical applications of tracking and tracing botnets.

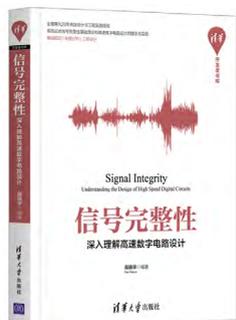
The book also elaborates on how to apply cutting-edge technologies such as knowledge graphs, feedback learning, graph neural networks, and generative adversarial networks to botnet detection, further enhancing detection accuracy and alert capabilities.

About Author:

邹福泰，博士，上海交通大学网络空间安全学院教师。ACM/IEEE会员，中国互联网协会网络空间安全方向青年专家。

Dr. Zou Futai is an associate professor at the School of Electronic Information and Electrical Engineering, Shanghai Jiao Tong University. He is also a senior member of IEEE and CCF. His research interests mainly focus on network attack detection and traceability, software and system security.

信号完整性——深入理解高速数字电路设计



Signal Integrity – Understanding the Design of High Speed Digital Circuits

作者：高晓宇

Author: GAO Xiaoyu

ISBN: 9787302558286

Publication Date: 2020-11-01

Page Count: 368

About the Book:

本书基于作者近二十年从事“信号完整性”理论研究和工程设计实践的经验积累写作而成，阐述从事高速数字电路设计所必需的“信号完整性”基础理论和设计知识，包括相关的基本概念、问题成因、理解分析方法、设计应对措施、技术演进历程等。本书运用尽可能浅近、直白、易懂的语言讲解较为深奥、复杂的技术问题。没有任何复杂、冗长的数学推导过程，依靠深入浅出的谈话式讲述文字和形象、直接的图表来分析问题。

This book is based on the author's nearly two decades of theoretical research in “signal integrity” and his experience accumulated in engineering design practice. It elaborates on the fundamental theory and design knowledge of “signal integrity” required for designing high-speed digital circuits, including relevant basic concepts, causes of problems, understanding and analysis methods, design countermeasures, and the technological evolution process. The book employs language that is as simple, straightforward, and comprehensible as possible to explain technically intricate and complex issues. Without any complex or lengthy mathematical derivations, the book uses simple dialogue-style explanations as well as visual and direct diagrams to analyze problems.

About Author:

高晓宇，男，1978年10月出生。从事电子通信技术研究和产品研发工作近二十年，擅长复杂、高速数字电路系统的设计，在信号完整性与高速电路设计领域具有丰富的设计经验。

Gao Xiaoyu is a male born in October 1978. He has been engaged in research and product development in the field of electronic communication technology for nearly twenty years. He specializes in the design of complex and high-speed digital circuit systems and possesses extensive design experience in signal integrity and high-speed circuit design.

写给设计师的技术书：从智能终端到感知交互



A Technical Book for Designers: From Smart Terminal to Perceptual Interaction

作者：薛志荣

Author: XUE Zhirong

ISBN: 9787302628125

Publication Date: 2023/4/1

Page Count: 268

About the Book:

随着人机交互和AI技术的快速发展，设计师需要从基于屏幕的图形用户界面设计思维，转变为空间交互及智能交互的设计思维。本书从设计师要懂技术的原因讲起，引导设计师结合技术去思考设计，并针对跨设备交互设计、基于AI的设计及各种传感技术（姿态和手势识别、人脸识别和追踪、眼动追踪等）进行解读与案例分析，帮助设计师更好地应对未来的工作挑战。

With the rapid development of human-machine interaction and AI technology, designers need to shift from screen-based design thinking of graphical user interfaces to the design thinking of spatial interaction and intelligent interaction. Starting with why designers must understand technology, this book guides designers to combine technology with design thinking. Meanwhile, it interprets cross-device interaction design, AI-based design, and various sensing technologies (posture and gesture recognition, facial recognition and tracking, eye tracking, etc.) and analyzes related cases. This helps designers better respond to future work challenges.

About Author:

薛志荣，人机交互设计师和独立开发者，著有《AI改变设计》《前瞻交互》，先后在百度、小鹏、华为人机交互实验室工作，拥有多项国家发明和外观专利。

Xue Zhirong is a designer of human-machine interaction and an independent developer. He is the author of AI Design and Prospective Interaction. He has worked at Baidu, XPeng, and the Huawei Human-Machine Interaction Lab and holds multiple national invention and design patents.

芯片力量：全球半导体征程与AI智造实录



Power of Chip: Global Semiconductor Journey and AI Intelligent Manufacturing Record

作者：李海俊、冯明宪

Author: LI Haijun, FENG Mingxian

ISBN: 9787302641858

Publication Date: 2023/8/1

Page Count: 288

About the Book:

《芯片力量》的主要内容分成三个部分：第一篇（第1~3章）是机遇篇，阐述历史机遇与产业历程，包括半导体产业在过去一个世纪中带给全球经济发展的机遇，以及大国在半导体机遇中的竞合与博弈历程。第二篇（第4~7章）是技术篇，阐述交叉跨界技术创新，以及新一代信息技术在半导体产业正发挥的、愈发重要的作用，这涉及芯片设计、制造、封测，也包括芯片制造设备厂商的应用实践与重要成果。第三篇（第8、9章）是管理篇，展望未来产业发展，包括如何看待和理解半导体产业在21世纪的爆发式增长，以及从产业发展管理及企业管理的视角出发，阐述如何更好地实现智能制造的升级管理。

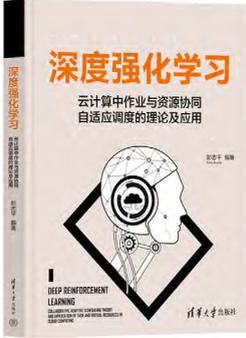
The book *Power of Chip* is divided into three parts: Part One (Chapters 1 to 3) is about opportunities, explaining historical opportunities and industry history. It covers the opportunities the semiconductor industry has brought to global economic development over the past century and major nations' competition, cooperation, and games amidst the semiconductor opportunity. Part Two (Chapters 4 to 7) is about technologies, discussing cross-disciplinary technological innovation and the increasingly pivotal role of new-generation information technology in the semiconductor industry. This involves chip design, manufacturing, closed beta test, and the application practices and significant achievements of the manufacturers of chip manufacturing equipment. Part Three (Chapters 8 and 9) is about management, offering insights into future industry development. It includes how to view and understand the explosive growth of the semiconductor industry in the 21st century and explains how to better upgrade and manage intelligent manufacturing from the perspectives of industry development management and corporate management.

About Author:

李海俊，亚太硅谷研究院研究员，上海交大国家战略研究院项目顾问，主要研究领域是半导体产业数字化转型及战略决策。

Li Haijun is a researcher at the Asia-Pacific Chip Valley Research Institute and a project consultant at the National Strategic Research Institute of Shanghai Jiao Tong University. His primary research areas are digital transformation and strategic decision-making in the semiconductor industry.

深度强化学习——云计算中作业与资源协同自适应调度的理论及应用



Deep Reinforcement Learning – Collaborative Adaptive Scheduling Theory and Application of Task and Virtual Resources in Cloud Computing

作者：彭志平

Author: PENG Zhiping

ISBN: 9787302617389

Publication Date: 2023/7/1

Page Count: 192

About the Book:

本文围绕两个云 workflow 执行过程中的关键步骤——云 workflow 任务分配和虚拟化资源供给，研究以容器为新型虚拟化基本单元的云计算环境下，以协同方式进行多 workflow 自适应调度的理论问题、关键技术和方法；在确保满足用户服务等级协议前提下，最大程度实现云服务供需双方的利益均衡。本书的课题组长期从事云计算关键技术、机器学习算法、多agent系统等领域的基础理论和应用研究。

This book focuses on two key steps in the execution process of cloud workflows: cloud workflow task assignment and virtual resource provisioning. It investigates the theoretical problems, key technologies, and methods for collaborative, adaptive multi-workflow scheduling in a cloud computing environment with containers as a new type of virtualization unit. This aims to balance the interests of both cloud service supply and demand sides while ensuring the fulfillment of user service level agreements. The research team of this book has long been engaged in foundational theoretical and applied research in fields such as key technologies of cloud computing, machine learning algorithms, and multi-agent systems.

About Author:

彭志平，博士，教授，中国系统仿真学会智能仿真优化与调度专委会常务委员，目前主要从事人工智能、智能系统等方向的科研与教学工作。

Dr. Peng Zhiping is a professor and an executive committee member of the Intelligent Simulation Optimization and Scheduling Special Committee of the China Simulation Federation. He is primarily engaged in research and teaching in the fields of artificial intelligence and intelligent systems.

面向云-边协同计算的资源管理技术



Resource Management for Cloud-Edge Computing

作者：陈星 林兵 陈哲毅

Author: CHEN Xing, LIN Bin, CHEN Zheyi

ISBN: 9787302625551

Publication Date: 2023/7/1

Page Count: 460

About the Book:

随着通信技术和硬件技术的快速发展以及移动设备的普及，云计算和边缘计算的资源管理问题在工业界和学术界都引起了广泛的关注。为满足相关研究人员的参考需求，作者编著了《面向云-边协同计算的资源管理技术》，主要介绍云-边协同资源管理相关理论和研究，帮助读者了解云-边协同资源管理问题和解决方法。本书呈现了以下理论、技术与应用：云计算；边缘计算；云-边协同；资源管理使能机制；资源自适应管理方法。

With the rapid development of communication technology, hardware technology, and the widespread application of mobile devices, resource management issues in cloud computing and edge computing have aroused much concern in both the industry and academic community. To satisfy relevant researchers' needs for reference, the authors have compiled *Resource Management for Cloud-Edge Computing*. This book primarily introduces theories and research related to resource management for cloud-edge collaborative, helping readers understand the issues and solutions for resource management for cloud-edge collaboration. This book presents the following theories, technologies, and applications: cloud computing, edge computing, cloud-edge collaboration, resource management enabling mechanisms, and self-adaptive methods for resource management.

About Author:

陈星，福州大学教授，福州大学计算机与大数据学院副院长，目前主要研究软件工程、系统软件等。

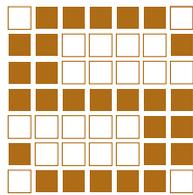
林兵，福建师范大学副教授，目前主要研究计算智能、 workflow 调度等技术。

陈哲毅，就职于福州大学计算机与大数据学院，主要研究方向包括机器学习、资源优化等。

Chen Xing is a professor at Fuzhou University and the Vice Dean of the College of Computer and Data Science at Fuzhou University. His main research areas include software engineering and system software.

Lin Bing is an associate professor at Fujian Normal University and is currently focused on the research of technologies such as computational intelligence and workflow scheduling.

Chen Zheyi works at the College of Computer and Data Science at Fuzhou University. His main research areas include machine learning and resource optimization.



理工 医学
STEM Books

增材制造技术

Additive Manufacturing Technology



作者：史玉升 等

Author: SHI Yusheng et al.

ISBN: 9787302605652

Publication Date: 2022/11/1

Page Count: 592

About the Book:

本书全面系统地介绍了增材制造技术的原理与方法。其主要内容包括增材制造技术概述，常用增材制造技术的核心元器件、激光选区烧结、激光选区熔化、液态树脂光固化成形、熔丝沉积成形、激光近净成形、电弧金属丝材增材制造等技术，以及这些技术的应用案例。本书具有系统性、全面性、普遍性和新颖性，图文并茂，既有理论研究，也有实际应用，是一本对增材制造技术的研究和应用极具实用价值的参考书。

This book comprehensively and systematically introduces the principles and methods of additive manufacturing technology. It includes an overview of additive manufacturing technology, commonly used core components of additive manufacturing technology, technologies such as selective laser sintering, selective laser melting, liquid resin stereo lithography apparatus, fused deposition modeling, laser engineered net shaping, wire arc additive manufacturing, and the application cases of these technologies. The book is systematic, comprehensive, universal, and novel, both well-written and well-illustrated. Covering theoretical research and practical applications, it is a highly valuable reference for the study and application of additive manufacturing technology.

About Author:

史玉升，1962年出生。博士，教授，博士生导师，华中科技大学特聘教授。现任华中科技大学材料科学与工程学院副院长。

Dr. Shi Yusheng, born in 1962, is a professor, doctoral supervisor, and distinguished professor at Huazhong University of Science and Technology. He currently serves as the Vice Dean of the School of Materials Science and Engineering of HUST.

数字化与智能化车间



Digital and Intelligent Workshop

作者：朱海平

Author: ZHU Haiping

ISBN: 9787302592389

Publication Date: 2021/12/1

Page Count: 476

About the Book:

数字化智能化车间建设是实现智能生产的关键。本书介绍了数字化智能化车间的基本概念，提出了数字化智能化车间的体系架构模型，对数字化智能化车间技术体系中的虚拟车间建模与仿真优化、制造物联网技术及应用、生产过程智能管控、基于大数据的车间运行智能决策支持等关键内容进行了深入探讨，并结合企业应用案例进行详细说明。

The construction of digital and intelligent workshops is vital to achieving intelligent production. This book introduces the basic concepts of digital and intelligent workshops, proposes the system architecture model of digital and intelligent workshops, and delves into key aspects of the technology system of the digital and intelligent workshops, including virtual workshop modeling and simulation optimization, manufacturing IoT technology and applications, intelligent control of production processes, and big data-based intelligent decision support for workshop operations. It also provides detailed explanations through corporate application cases.

About Author:

朱海平，华中科技大学机械学院教授，从事制造系统建模与优化、可靠性分析与维修决策等方面的科研和教学工作。

Zhu Haiping is a professor at the School of Mechanical Science & Engineering of HUST. He is engaged in the research and teaching of manufacturing system modeling and optimization, reliability analysis, and maintenance decision-making.

智能制造的信息安全



Information Security for Smart Manufacturing

作者：李晖、朱辉、张跃宇、赵兴文

Author: LI Hui, ZHU Hui, ZHANG Yueyu,
ZHAO Xingwen

ISBN: 9787302598428

Publication Date: 2022/7/1 Page Count: 216

About the Book:

本书将面向围绕数字化供应链构成的数据生态系统，介绍数据流转共享的新兴技术，同时结合其安全需求，介绍身份认证、信任管理、数据保护、访问控制、乃至区块链技术在智能制造中的应用，为智能制造领域的从业人员了解相关安全技术提供参考。

Oriented toward the data ecosystem constituted around the digital supply chain, this book covers emerging technologies of data flow and sharing. At the same time, in consideration of security needs, it presents the application of identity authentication, trust management, data protection, access control, and even blockchain technology in smart manufacturing, providing a reference for professionals in the field of smart manufacturing to understand relevant security technologies.

About Author:

李晖，博士生导师，现任西安电子科技大学网络与信息安全学院执行院长，主要的研究方向是密码信息安全、信息论与编码理论。

Li Hui is a doctoral supervisor and currently serves as the Executive Dean of the School of Cyber Engineering at Xidian University. His primary research direction includes cryptographic information security, information theory, and coding theory.

材料成形过程模拟



Material Forming Process Simulation

作者: 周华民 等

Author: ZHOU Huamin et al.

ISBN: 9787302596073

Publication Date: 2022/7/1

Page Count: 544

About the Book:

本书简要介绍了有限单元法、有限差分法、边界元法等数值模拟基本方法，在此基础上，论述了主要材料成形工艺的模拟方法和系统，包括板料成形、体积成形、铸造成形、焊接成形、注射成形等。全书内容既涵盖比较成熟的理论和方法，又反映当前的新进展。

This book briefly introduces fundamental numerical simulation methods such as the finite element method, finite difference method, and boundary element method. On this basis, it then discusses simulation methods and systems for major material forming processes, including sheet forming, bulk forming, casting forming, welding forming, and injection molding. The book covers well-established theories and methods as well as the latest advancements in the field.

About Author:

周华民，华中科技大学材料科学与工程学院教授，主要从事材料成形工艺、模拟、智能装备的研究。

Zhou Huamin is a professor at the School of Materials Science and Engineering of HUST. He is mainly engaged in the research of material forming processes, simulations, and intelligent equipment.

工程物理系统建模理论与方法

Modeling Theory and Methods of Engineering Physical System



作者：陈立平、周凡利、丁建完

Author: CHEN Liping, ZHOU Fanli, DING Jianwan

ISBN: 9787302605669

Publication Date: 2022/7/1

Page Count: 272

About the Book:

本书以知识自动化为宗旨，以机电液控一体化装备系统为对象，从工程物理系统原理入手，全面介绍基于工业知识的表达规范Modelica的知识自动化体系及实现方法；通过在航天、航空、汽车等领域的工程实践，介绍Modelica知识自动化技术体系在物理系统仿真分析、系统方案设计与优化、半实物仿真等方面应用实现。为了便于，本书将配备相关软件系统—Modelica开发环境MWorks，便于读者全面掌握、体验知识自动化方法。

For the purpose of knowledge automation and focusing on mechatronic-hydraulic integrated equipment systems, this book starts with the principles of engineering physical systems and comprehensively introduces the knowledge automation system and implementation methods based on the industrial knowledge expression standard of Modelica. Through engineering practices in aerospace, aviation, automotive, and other fields, it presents the application of the Modelica knowledge automation technology system in such areas as physical system simulation analysis, system design and optimization, and hardware-in-the-loop simulation. For convenience, the book comes with the relevant software system – the Modelica development environment MWorks, enabling readers to fully master and experience knowledge automation methods.

About Author:

陈立平博士，教授，于1998年开始对基于多领域统一建模的研究，作为负责人及主要研究者先后承担了多项国家重大科技项目，于2012年率先在国内乃至亚太地区推出了新一代产品数字化研发平台MWorks。

Dr. Chen Liping is a professor and began his research in the field of multi-domain unified modeling in 1998. He has taken on various major national science and technology projects as a person in charge and primary researcher. In 2012, he introduced the new-generation product digital R&D platform, “Mworks,” in China and the Asia-Pacific region.

工程机械手册——市政机械与游乐设施

Handbook of Construction Machinery – Municipal Machinery and Recreation Facilities



作者：黄兴华、舒文华、周崎、盛金良
Author: HUANG Xinghua, SHU Wenhua,
ZHOU Qi, SHENG Jinliang
ISBN: 9787302617310
Publication Date: 2023/4/1 Page Count: 812

About the Book:

本书整合了与城市运行相关度较高的的市政、园林机械；游乐设施；洗车、修车和停车设备，主要分6篇：第1篇，市政机械；第2篇，园林机械；第3篇，游乐设施；第4篇，洗车设备；第5篇，修车设备；第6篇，停车设备。本手册可供工程机械行业相关的科研院所，设备使用和租赁企业的工程技术人员、现场操作人员、现场服务维修人员以及管理和营销人员参考。

This book integrates fields highly related to urban operations, including municipal administration and landscaping machinery; amusement facilities; car washing, repair, and parking equipment. It is divided into six parts: Part 1 covers municipal machinery; Part 2 is about landscaping machinery, Part 3 talks about amusement facilities; Part 4 covers car washing equipment; Part 5 is about repair equipment; Part 6 covers parking equipment. This manual can serve as a reference for research institutes related to the construction machinery industry, engineering technicians, on-site operators, and on-site service and maintenance personnel from equipment utilization and leasing enterprises, and management and marketing personnel.

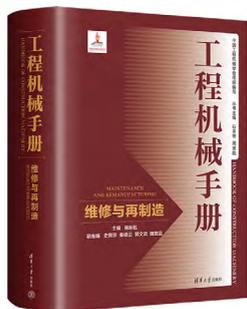
About Author:

黄兴华，男，教授级高工，历任上海市环境卫生管理局科技设备处副处长，上海市环境工程设计科学研究所所长，上海市市容环境卫生管理局（副局长、总工程师），上海电机学院副院长。

Huang Xinghua, male, is a professor-level senior engineer and has held positions such as Deputy Director of the Technology and Equipment Department of the Shanghai Environmental Sanitation Administration Bureau, Dean of Shanghai Environmental Engineering Design and Research Institute, Deputy Director and Chief Engineer of the Shanghai City Appearance Environmental Sanitation Administration Bureau, and Vice Dean of Shanghai Dianji University.

工程机械手册——维修与再制造

Handbook of Construction Machinery – Maintenance and Remanufacturing



作者：易新乾、史佩京、秦倩云、郭文武、魏世丞

Author: YI Xinqian, SHI Peijing, QIN Qianyun,
GUO Wenwu, WEI Shicheng

ISBN: 9787302603924

Publication Date: 2022/10/1 Page Count: 800

About the Book:

本书是《工程机械手册》系列工具书中的一个分册，由业内80余位资深专家历时近4年精心编写而成。内容涉及维修与再制造理论、管理、技术和生产实践。

As a volume in the Handbook of Construction Machinery series, this book is authored by over 80 senior experts in the industry and took them nearly four years to finish. The content covers theories, management, technology, and practical production related to maintenance and remanufacturing.

About Author:

易新乾，石家庄铁道大学教授，中国工程机械学会维修与再制造分会顾问，中国工程机械工业协会维修与再制造分会顾问，盾构再制造创新战略联盟监事长。

Yi Xinqian is a professor at Shijiazhuang Tiedao University. He holds advisory positions in the Subcommittee on Maintenance and Remanufacturing of China Construction Machinery Society and the Subcommittee on Maintenance and Remanufacturing of China Construction Machinery Association. He is also the Chairman of the Shield Remanufacturing Innovation Strategy Alliance.

交通建筑高大空间渗透风特征研究

Research on the Characteristics of Air Infiltration in Large Spaces of Transportation Buildings



作者: 刘效辰

Author: LIU Xiaochen

ISBN: 9787302631736

Publication Date: 2023/7/1

Page Count: 231

About the Book:

本书通过广泛的实测调研揭示了该类建筑中冬夏季渗透风的特征（包含33座机场航站楼和3座高铁客运站），通过深入的理论分析刻画其影响因素和作用机理，提出从阻力和动力两方面出发降低高大空间渗透风量的分析方法，有效应对实际工程中普遍存在的交通建筑高大空间渗透风问题。相关研究成果已应用于西安咸阳机场、青岛胶东机场、成都天府机场等标志性交通建筑。本书适合高校建筑环境与能源应用工程等专业的师生以及建筑设计院相关专业人员阅读，也可供相关领域的技术人员以及该类建筑的运行管理人员参考。

This book reveals the characteristics of air infiltration in winters and summers of this type of building (including 33 airport terminals and three high-speed railway stations) through extensive field surveys. It employs in-depth theoretical analysis to portray influencing factors and action mechanisms, proposing analysis methods to reduce air infiltration in tall and large spaces from both resistance and dynamic aspects, effectively addressing the common issue of air infiltration in transportation buildings. Relevant research findings have been applied to iconic transportation buildings such as Xi'an Xianyang International Airport, Qingdao Jiaodong International Airport, and Chengdu Tianfu International Airport. This book suits students and teachers in majors like architectural environment and energy application engineering and professionals in architectural design institutes. It can also serve as a reference for technicians in related fields and operational management personnel of such buildings.

About Author:

刘效辰，博士毕业于清华大学，现为“水木学者”博士后。发表SCI期刊论文14篇，中文核心期刊论文5篇等。

Liu Xiaochen graduated from Tsinghua University with a Ph.D. degree and is currently a postdoctoral fellow of “Shuimu Tsinghua Scholar.” He has published 14 papers in SCI journals and five papers in core Chinese journals.

基于交通波时空传播规律的道路拥堵建模与分析

Modeling and Analyzing Road Congestion Based on the Spatiotemporal Propagation of Traffic Shockwaves



作者：王正礼

Author: WANG Zhengli

ISBN: 9787302620457

Publication Date: 2023/4/1

Page Count: 137

About the Book:

本书基于交通波的时空传播规律，对道路拥堵相关问题进行建模与分析。本书主要的创新点可以概括以下三点：(1)通过建立数学规划模型来估算交通事故的时空影响范围，模型输出的时空拥堵区域的形状能够满足交通波传播规律，这在已有文献中尚属首次。在此研究的基础上，针对时空区域包含多起事故的情形进行拓展，并用以识别次生事故。(2)利用车流速度的时空演变，首次提出一种能够同时修正事故报告中事发时间和位置偏差的方法。(3)对于信号灯路口车辆排队形成的时空拥堵区域，通过建立整数规划模型得到任何形状且满足交通波传播规律的结果。

Based on the spatiotemporal propagation laws of traffic shockwaves, this book models and analyzes problems related to road congestion. The book is primarily innovative in the following three aspects: (1) It is the first time in the existing literature to find out that the shape of the spatiotemporal congestion area output by the model satisfies the propagation laws of traffic shockwaves by constructing mathematical programming models to estimate the spatiotemporal impact range of traffic accidents. Building on this research, the book extends to scenarios where multiple accidents occur within the spatiotemporal region and is used to identify secondary accidents. (2) Utilizing the spatiotemporal evolution of traffic flow speeds, it presents, for the first time, a method that simultaneously corrects the time and location deviations in accident reports. (3) For spatiotemporal congestion areas formed by vehicle queues at intersections controlled by traffic lights, the book uses an integer programming model to obtain results with any shape that satisfies the propagation laws of traffic shockwaves.

About Author:

王正礼，现为南京大学副教授，主要从事交通大数据分析建模、运筹优化等方面的研究，曾获得北京市优秀毕业生（2020）等荣誉。

Wang Zhengli is currently an associate professor at Nanjing University. He is mainly engaged in the research of traffic big data analysis and modeling and operation optimization. He has received honors such as the Beijing Outstanding Graduate (2020).

新兴经济体二氧化碳核算清单与排放特征分析（2010-2018）

Carbon Dioxide Accounting Inventory and Emission Characterization of Emerging Economies (2010-2018)



作者：关大博

Author: GUAN Dabo

ISBN: 9787302626473

Publication Date: 2023/2/1

Page Count: 133

About the Book:

本书聚焦于新兴经济体的二氧化碳分析，旨在为新兴经济体的二氧化碳排放清单建立统一、透明、科学的核算体系，搭建符合新兴经济体国情的碳排放数据库，分析新兴经济体的碳排放现状与特征，为挖掘新兴经济体未来减排潜力提供基础数据保障。本书根据联合国政府间气候变化专门委员会的核算方法，收集了能源活动水平数据和排放因子数据，编制了2010—2018年8种能源类型和47个行业的30个新兴经济体二氧化碳排放清单。本书按洲分篇章展开，从行业、能源品种、区域等不同维度针对每个新兴经济体进行详尽、具体的二氧化碳排放分析，并提供与国际机构的数据对比分析，以验证数据的合理性和可靠性。

This book focuses on carbon dioxide analysis of emerging economies, aiming to establish a unified, transparent, and scientific accounting system for carbon dioxide emissions inventories in these economies, build a carbon emissions database tailored to their national conditions, and analyze their current carbon emission status and features, providing fundamental data support for tapping these economies' future emission reduction potential. Following the accounting methods of the Intergovernmental Panel on Climate Change (IPCC), the book has collected data on energy activity levels and emission factors to compile carbon dioxide emissions inventories for 30 emerging economies of eight energy types in 47 industries for the period from 2010 to 2018. The book is organized by continent, analyzing carbon dioxide emissions in emerging economies comprehensively and specifically from different dimensions such as industries, energy types, and regions. The data is also compared with international institutions' data to confirm its rationality and reliability.

About Author:

关大博，教授，英国社会科学院院士，2018年全球百篇最具影响力奖、2014年科扎雷利奖、Philip Leverhulme奖获得者。

Guan Dabo is a professor and a Fellow of the Academy of Social Sciences, UK. He has received awards such as the Global Top 100 Most Influential Papers Award in 2018, the Cozzarelli Prize in 2014, and the Philip Leverhulme Prize.

直流气体绝缘管道输电系统中气-固界面电荷特性研究

Study on Characteristics of the Surface Charge at Gas-Solid Interface in DC Gas Insulated Transmission System



作者：张博雅

Author: ZHANG Boya

ISBN: 9787302617501

Publication Date: 2022/12/1

Page Count: 165

About the Book:

气体绝缘管道输电线路 (Gas-insulated transmission line, GIL) 是一种重要的输电设备，而固-气界面电荷积聚是影响直流GIL绝缘性能的关键问题。本书详细介绍了直流电场下固-气界面电荷的测量技术、电荷积聚与消散的机理和特性、以及抑制电荷积聚的方法。本书的研究成果不但具有重要的理论意义，同时具有潜在的应用价值，为我国高压直流气体绝缘设备的研制提供了重要的技术手段、理论基础和设计思路。

The gas-insulated transmission line (GIL) is important power transmission equipment, and the charge accumulation on solid-gas interface significantly impacts the insulation performance of DC GIL. This book provides a detailed introduction to measurement techniques for surface charges at solid-gas interface under DC electric fields, the mechanisms and characteristics of charge accumulation and dissipation, and methods to suppress charge accumulation. The research findings in this book hold not only theoretical significance but also potential application value, providing imperative technical means, theoretical foundations, and design ideas for the development of high-voltage DC gas-insulated equipment in China.

About Author:

张博雅，于2013年、2018年在清华大学获得工学学士和博士学位，主要研究方向为高压电力设备沿面绝缘与放电诊断、高电压与大电流新技术、气体放电与等离子体。

Zhang Boya received his Bachelor's and Ph.D. degrees from Tsinghua University in 2013 and 2018, respectively. His primary research directions include surface insulation and discharge diagnosis of high-voltage power equipment, new technologies for high voltage and high current, gas discharge, and plasma.

基于分布式鲁棒优化的应急救援系统选址模型和算法研究

A Distributionally Robust Optimization Approach to Emergency Facility Location Problems: Models and Algorithms



作者：刘康琳

Author: LIU Kanglin

ISBN: 9787302602378

Publication Date: 2022/7/1

Page Count: 144

About the Book:

通过分布式鲁棒优化方法对应急供应链中的关键设施进行选址，充分考虑突发紧急事件中的需求和供给不确定性，权衡救援的效率、效果和公平之间的关系，在求解时利用机会约束刻画服务质量，利用模型的理论特征和优化算法加速求解。特色：考虑突发紧急事件对于应急设施选址及物资储备策略的影响，将理论研究成果应用于实际案例，兼具理论与实证贡献。读者对象：管理科学与工程、物流管理及物流工程、交通运输规划与管理相关专业研究生及教学科研人员。

Through the distributionally robust optimization method, this book chooses locations for key facilities in emergency supply chains, taking into full account the uncertainty in demand and supply during sudden emergencies and balancing the trade-off among rescue efficiency, effectiveness, and fairness. It characterizes service quality with chance constraints during solving and accelerates solutions using the theoretical characteristics of the model and optimization algorithms. Features: Considering the impact of sudden emergencies on the location of emergency facilities and material reserve strategies, this book applies theoretical research results to practical cases, offering both theoretical and empirical contributions. Target audience: Graduate students as well as teachers and researchers in management science and engineering, logistics management and logistics engineering, and transportation planning and management.

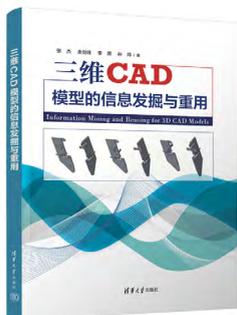
About Author:

刘康琳，工学博士，北京交通大学交通运输学院物流工程系讲师，主要研究方向为供应链网络优化

Liu Kanglin, Ph.D. in Engineering, is a lecturer in the Department of Logistics Engineering at the School of Traffic and Transportation, Beijing Jiaotong University. His main research areas include supply chain network optimization.

三维CAD模型的信息发掘与重用

Information Mining and Reusing for 3D CAD Models



作者: 张杰、余剑峰、李原、孙炜

Author: ZHANG Jie, YU Jianfeng, LI Yuan, SUN Wei

ISBN: 9787302604235

Publication Date: 2022/7/1

Page Count: 167

About the Book:

本书重点以三维装配体为对象,详细阐述了CAD模型信息发掘与重用的相关原理和方法。全书共分为4篇:第1篇叙述模型信息重用的内涵和相关方法的发展现状,解析了数字化环境下可重用模型信息的主要构成;第2篇探讨装配体模型检索方法,分别依据离散化零件信息、考虑零件连接关系和构建空间连接骨架三类途径,阐述了装配体模型检索原理和具体算法;第3篇探讨装配体通用结构发掘方法,叙述了基于属性连接图和广义面邻接图两类通用结构发掘原理和算法;第4篇研究装配体功能结构分析与信息重用方法,分别给出了基于功能信息标注和功能概率的装配体功能结构关系挖掘方法。另外,本书引入了大量三维模型实例。

Focusing on 3D assembly models, this book provides a detailed exposition of the principles and methods for information mining and reusing for CAD models. The book is divided into four parts: Part 1 discusses the connotation of model information reusing and the current development state of related methods, analyzing the main components of reusable model information in the digital environment. Part 2 explores assembly model retrieval methods, explaining the principles and specific algorithms for assembly retrieval based on three ways of discrete component information, consideration of part connectivity, and construction of spatial connectivity skeletons. Part 3 delves into methods for mining common assembly structures, describing principles and algorithms for general structure mining based on attribute adjacency graphs and generalized adjacency graphs. Part 4 investigates assembly functional structure analysis and information reusing methods, presenting methods for mining the functional relationships of assembly structures based on functional information annotation and functional probability. Furthermore, the book introduces numerous 3D model examples.

About Author:

张杰, 博士, 西北工业大学航空宇航制造工程专业副教授。

余剑峰, 博士, 西北工业大学航空宇航制造工程专业副教授。

Dr. Zhang Jie is an associate professor in the Department of Aerospace Manufacturing Engineering at Northwestern Polytechnical University.

Dr. Yu Jianfeng is an associate professor in the Department of Aerospace Manufacturing Engineering at Northwestern Polytechnical University.

国际焊接学会（IIW）2021研究进展

IIW 2021 Research Findings



作者：李晓延、邹贵生
Author: LI Xiaoyan, ZOU Guisheng
ISBN: 9787302603559
Publication Date: 2022/6/1
Page Count: 326

About the Book:

本书对国际焊接学会（IIW）2021年年会交流的学术文献进行了介绍与评述，包括国际焊接学术领域在增材制造、热切割和热喷涂，电弧焊与填充金属，压焊，高能束流加工，焊接结构的无损检测与质量保证，微纳连接，焊接健康、安全和环境，金属焊接性，焊接接头性能与断裂预防，压力容器、锅炉和管道，弧焊工艺与生产系统，焊接构件和结构的疲劳，焊接教育与培训，焊接结构设计、分析和制造，聚合物连接与胶接技术，钎焊与扩散焊技术，焊接物理，焊接培训与认证等方面的研究进展。本书可供从事焊接及相关领域学科研究的技术人员和管理者参考。

This book introduces and reviews the academic papers exchanged at the 2021 Annual Assembly of the International Institute of Welding (IIW), covering research progress of the international welding community in various fields, including additive manufacturing, thermal cutting and thermal spraying, arc welding and filler metals, pressure welding, high-energy beam processing, non-destructive testing and quality assurance of welded structures, micro and nano connections, welding health, safety, and environment, metallic weldability, welded joint performance and fracture prevention, pressure vessels, boilers and pipes, arc welding processes and production systems, fatigue of welded components and structures, welding education and training, welding structure design, analysis, and manufacturing, polymer connections and adhesive technology, soldering and brazing and diffusion welding technology, welding physics, and welding training and certification. This book is a reference for technicians and managers engaged in welding and research in related fields.

About Author:

李晓延（主编），北京工业大学材料与制造学部材料科学与工程学院，教授/博士。研究方向：微电子组装材料与技术、材料无损检测与评价等。

Dr. Li Xiaoyan (Editor-in-Chief) is a professor at the College of Materials Science and Engineering, Faculty of Materials and Manufacturing, Beijing University of Technology. His main research areas include microelectronic assembly materials and technology, non-destructive testing and evaluation of materials and etc.

天然石墨的改性与应用

Modification and Application for Natural Graphite



作者: KANG Feiyu

Author: KANG Feiyu

ISBN: 9787302601180

Publication Date: 2022-02-01

Page Count: 340

About the Book:

本书基于30多年的科研工作,系统阐述了微晶石墨层间化合物插层技术,膨胀石墨和柔性石墨的膨化与压延工艺、增强技术、低硫技术和流延成型技术,石墨烯粉末制备的插层-氧化-剥离工艺和低温负压工艺,讨论了天然石墨深加工制品在锂离子电池、吸油及环保、隐身屏蔽和燃料电池双极板中的应用。

This book is based on over 30 years of research work and systematically explains the intercalation technology of microcrystalline graphite intercalation compounds, the expansion and rolling processes of expanded graphite and flexible graphite, reinforcement techniques, low-sulfur techniques, and tap casting methods, and the intercalation-oxidation-stripping process for graphene powder preparation and the low-temperature negative pressure process. The book discusses the applications of deep-processed natural graphite products in lithium-ion batteries, oil absorption and environmental protection, stealth shielding, and bipolar plates of fuel cells.

About Author:

康飞宇,清华大学教授、博士生导师,清华大学副秘书长、清华大学深圳研究生院院长

Kang Feiyu is a professor and doctoral supervisor at Tsinghua University, Deputy Secretary-General of Tsinghua University, and Dean of Tsinghua Shenzhen International Graduate School.

植物无糖培养微繁殖及种苗生产



Sugar-free Micropropagation and Transplant Production

作者: 肖玉兰、姜仕豪、党康、杨成贺

Author: XIAO Yulan, JIANG Shihao, KANG Dang, YANG Chenghe

ISBN: 9787302611400

Publication Date: 2022-12-01 Page Count: 508

About the Book:

本书汇集了许多科研人员和种苗生产者的工作成果，也是作者多年研究和实践工作的结晶，可以帮助读者了解试管苗的生长发育与环境之间的关系，拓展思路，解决其研究和生产中碰到的问题。《植物无糖培养微繁殖及种苗生产》适用于植物组织培养相关领域的研究人员，以及种苗繁育、温室园艺、植物工厂、环境控制方面相关的工作人员，也可供大专院校和科研院所中生物、农业、林业、中草药、生态等相关专业的师生参考。当然，这也是一本植物组织培养自动化及智能化研发的参考书，能为你开启一个新的想象空间。

This book brings together the work of many researchers and seedling producers, reflecting the authors' years of research and practical experience. It helps readers understand the relationship between the growth and development of seedlings in test tubes and the environment, develop their thoughts, and solve problems encountered in research and production. Sugar-free Micropropagation and Transplant Production suits researchers in the field of tissue culture, as well as professionals in the propagation of seedlings, greenhouse horticulture, plant factories, and environmental control. It can also be a reference for students and teachers in related majors, such as biology, agriculture, forestry, traditional Chinese medicine, and ecology, in colleges, universities, and research institutes. Of course, this is also a reference book for the development of automated and intelligent tissue culture, which will open up new imaginative spaces for you.

About Author:

肖玉兰，博士、研究员，现任上海离草科技有限公司首席专家。主要从事植物组织培养、植物生长环境调控研究。

Dr. Xiao Yulan is a researcher and currently the chief expert at Shanghai Licao Technology Co., Ltd. She is primarily engaged in tissue culture and environmental regulation of plant growth.

智能网联汽车导论



Introduction to Intelligent and Connected Vehicles

作者: 李骏、李凯强、王云鹏

Author: LI Jun, LI Keqiang, WANG Yunpeng

ISBN: 9787302605478

Publication Date: 2022/7/1

Page Count: 344

About the Book:

本书主要内容包括智能网联汽车关键的理论基础、软硬件设计、核心技术和集成应用等方面。理论基础部分介绍了车辆系统动力学、驾驶员行为特性、交通流建模、自动控制、机器学习、数据挖掘等。软硬件设计部分从场景与功能定义、系统体系架构、电子电气架构等角度介绍了智能网联汽车设计思想与原理。核心技术部分介绍了智能网联汽车环境感知、地图定位、决策规划、运动控制、网联通信、功能安全、测试评价等关键技术。集成应用部分介绍了低级别辅助驾驶系统、高级别自动驾驶系统、车路协同系统、网联云控系统等方面的典型示范与工程应用。

This book mainly discusses the key theoretical foundations, software and hardware design, core technologies, and integrated applications of intelligent connected vehicles. The theoretical foundation section covers vehicle system dynamics, driver behavior characteristics, traffic flow modeling, automatic control, machine learning, and data mining. The software and hardware design section introduces the design ideas and principles of intelligent connected vehicles from the perspectives of scene and function definition, system architecture, and electronic and electrical architecture. The core technology section discusses key technologies such as environmental perception, map positioning, decision planning, motion control, network communication, functional safety, and testing and evaluation. The integrated application section provides typical demonstrations and engineering applications of low-level assisted driving systems, high-level automated driving systems, vehicle infrastructure cooperative systems, and connected cloud control systems.

About Author:

李骏, 清华大学教授, 中国工程院院士。历任中国一汽技术中心总工程师、技术中心主任、一汽集团总工程师等职务。

Li Jun is a professor at Tsinghua University and an academician at the Chinese Academy of Engineering. He has held various positions such as Chief Engineer of China FAW Group Corporation R&D Center, Director of the R&D Center, and Chief Engineer of FAW Group.

透明激光陶瓷

Transparent Laser Ceramics



作者: 陈昊鸿、雷芳

Author: CHEN Haohong, LEI Fang

ISBN: 9787302619819

Publication Date: 2023/3/1

Page Count: 576

About the Book:

已实现千瓦级激光的透明激光陶瓷为现有的、基于晶体和玻璃的激光应用带来了革新,奠定了未来实现核聚变和空间太阳能收集等先进工程的基础,有助于中国“稀土经济”的发展。结合工程实践案例,本书从光功能材料研究的视角,系统介绍了这类新兴材料的结构、性能、制备、应用和发展,包括历史起源,独特多晶结构的影响,从传统不透明到透明激光应用时陶瓷结构和工艺所需的改进与理论机制,面向材料激光的虚拟设计与模拟,以及对今后技术和材料发展的展望。

The realization of kilowatt-level transparent laser ceramics has brought innovation to existing crystal and glass-based laser applications, laying the foundation for advanced projects such as nuclear fusion and space solar collection in the future and contributing to the development of China's "rare earth economy." Combining with engineering cases, this book systematically introduces the structure, properties, preparation, applications, and development of this type of emerging materials from the perspective of optical function material research. This includes historical origins, the influence of unique polycrystalline structures, improvements required for ceramic structures and processes to transition from traditional opaque to transparent laser applications and the theoretical mechanisms, virtual design and simulation for materials lasers, and prospects for future technological and material development.

About Author:

陈昊鸿, 博士, 副研究员, 2003年起就职于中科院上海硅酸盐研究所, 现主要从事激光、闪烁和照明显示用透明陶瓷的制备与性能研究。

Dr. Chen Haohong is an associate researcher. He has been working at the Shanghai Institute of Ceramics, Chinese Academy of Sciences, since 2003. He is mainly engaged in the research of the preparation and performance of transparent ceramics for laser, blinking, and lighting displays.

光纤高温传感技术



High-Temperature Fiber Optical Sensing Techniques

作者：江毅、于永森

Author: JIANG Yi, YU Yongsen

ISBN: 9787302626862

Publication Date: 2023/4/1

Page Count: 376

About the Book:

光纤高温传感器是近年来日益受到重视并发展起来的一类新型光纤传感器，涉及光学、电子、材料等学科。本书系统介绍了北京理工大学和吉林大学两个课题组在高温光纤传感器领域的研究成果，同时集结了国内同行的部分研究成果。

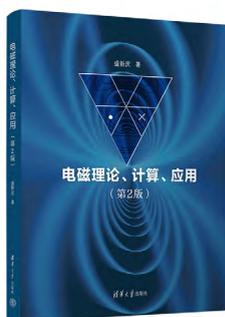
High-temperature fiber optical sensors are a new type of fiber optical sensor that has received increasing attention and has made substantial development in recent years. It involves disciplines such as optics, electronics, and materials. This book systematically introduces the research achievements in the field of high-temperature fiber optical sensors by two research groups from the Beijing Institute of Technology and Jilin University. It also collects some research achievements from Chinese peers.

About Author:

江毅，教授，博导，研究方向为光纤传感器。2007年入选教育部新世纪优秀人才。长期从事光纤传感器和光纤测量仪器的研究。

Jiang Yi is a professor and doctoral supervisor. His research direction is fiber optic sensors. He was selected as one of the New Century Excellent Talents by the Ministry of Education in 2007. He has long been engaged in research on fiber optic sensors and fiber optic measurement instruments.

电磁理论、计算、应用（第2版）

**Electromagnetic Theory,
Calculations, and Applications
(2nd Edition)**

作者：盛新庆

Author: SHENG Xinqing

ISBN: 9787302634041

Publication Date: 2023/7/1

Page Count: 324

About the Book:

本书以问题为中心，而非知识。主要讲了4个问题，分别对应4章：①电磁波是如何发现的；②电磁波是怎样传播和传输的；③电磁波是如何辐射的；④电磁波又是怎样散射的。为了讲通、讲透这4个问题，本书横穿了现有电磁波理论、天线、计算电磁学、雷达等多门课程知识，纵贯了传统本、硕、博三个阶段的电磁波理论课程知识。本书不求知识点的完备，但求把核心要点讲得通透，以及准确反映核心要点随时代的变化趋势。

This book revolves around questions rather than knowledge. It primarily addresses four questions, corresponding to four chapters: ① How were electromagnetic waves discovered? ② How do electromagnetic waves propagate and transmit? ③ How do electromagnetic waves radiate? ④ How do electromagnetic waves scatter? To thoroughly explain these four questions, this book encompasses various course knowledge, including existing electromagnetic wave theory, antennas, computational electromagnetics, and radar. It spans knowledge across undergraduate, postgraduate, and doctoral levels. This book does not aim to cover all knowledge points but strives to elucidate the core points and accurately reflect how these core points change with the times.

About Author:

盛新庆，北京理工大学讲席教授，主要从事计算电磁学，目标特性与隐身设计，天线分析与设计，复杂电磁环境模拟等方面研究。

Sheng Xinqing is an endowed chair at the Beijing Institute of Technology, mainly engaged in the research of computational electromagnetics, target properties and stealth design, antenna analysis and design, and simulation of complex electromagnetic environments.

自吸收免疫激光诱导击穿光谱理论与技术

Theory and Technique of Self-Absorption-Free Laser Induced Breakdown Spectroscopy



作者: 尹王保、张雷、侯佳佳、赵洋
Author: YIN Wangbao, ZHANG Lei,
HOU Jiajia, ZHAO Yang
ISBN: 9787302632160
Publication Date: 2023/6/1 Page Count: 248

About the Book:

激光诱导击穿光谱技术是近年来利用激光做激发源进行物质成分分析的研究热点，其技术广泛应用于能源、选矿、化工、分析等行业。本书详细介绍了自吸收免疫激光诱导击穿光谱的前沿理论及其应用技术，为解决目前激光诱导击穿光谱击穿光谱在应用中的瓶颈问题提供了有益的理论基础和研究方法。本书主要面向光学、电子信息技术和物理等相关领域的科研人员、学者、研究生与高年级本科生。

Laser-induced breakdown spectroscopy technology is a recent research hotspot that employs lasers as excitation sources for material composition analysis. This technology is extensively applied in industries such as energy, mining, chemical engineering, and analysis. This book introduces in detail the pioneering theory and application technology of self-absorption-free laser-induced breakdown spectroscopy, offering a valuable theoretical foundation and research methods to address the bottleneck issues in the application of laser-induced breakdown spectroscopy. The book is primarily targeted at researchers, scholars, graduate students, and senior undergraduate students in fields related to optics, electronic information technology, and physics.

About Author:

尹王保，山西大学教授、博士生导师，长期从事激光光谱技术理论及应用研究。Yin Wangbao is a professor and doctoral supervisor at Shanxi University. He has long been dedicated to the research of laser spectroscopy technology theories and applications.

张雷，山西大学教授、博士生导师，研究领域为激光诱导击穿光谱、光谱融合建模等。Zhang Lei is a professor and doctoral supervisor at Shanxi University, specializing in laser-induced breakdown spectroscopy and spectral fusion modeling.

激光效应与工程应用

Laser Effects and Engineering Applications



作者：韩敬华、冯国英、何长涛

Author: HAN Jinghua, FENG Guoying, HE Changtao

ISBN: 9787302623694

Publication Date: 2023/5/1

Page Count: 440

About the Book:

本书针对激光与物质相互作用的基础理论、效应机理、前沿应用等问题进行了概述和凝练，展示了激光在精密制造、快速清洗、环境保护、激光系统元件应用等领域的前沿成果。本书主要内容包括飞秒激光特性及加工优势激光及等离子体清洗、等离子体光谱对界面检测、激光诱导光学材料损伤等。本书从激光与物质相互作用的基本原理出发，针对不同的激光参数和材料类型，对激光作用过程和效应进行理论分析、机理研究、仿真模拟、实验验证、并建立了相应的物理模型。

This book is an overview and essence of the fundamental theory, effect mechanisms, and frontier applications of lasers' interaction with matter, showcasing lasers' cutting-edge achievements in areas such as precision manufacturing, rapid cleaning, environmental protection, and laser system component applications. It mainly covers femtosecond laser characteristics and processing advantages, laser and plasma cleaning, plasma spectroscopy for interface detection, and laser-induced damage to optical materials. This book starts from the basic principles of laser's interaction with matter, carrying out theoretical analysis, mechanism research, simulation modeling, experimental verification, and the establishment of corresponding physical models on the laser action process and effects with regard to different laser parameters and material types.

About Author:

韩敬华，四川大学副教授，主要从事激光辐照效应及应用的相关研究。

Han Jinghua is an associate professor at Sichuan University. He is primarily engaged in research related to laser irradiation effects and applications.

建筑工程全寿命周期综合性能分析与评价

Comprehensive Performance Analysis and Evaluation of Construction Projects throughout the Life Cycle



作者：朱健

Author: ZHU Jian

ISBN: 9787302625858

Publication Date: 2023/5/1

Page Count: 252

About the Book:

作者在总结、归纳前人研究体会和个人研究成果的基础上，根据目前土木建筑全寿命周期和可持续性研究的需要撰写了这部将理论与应用结合起来的研究型专著。针对土木建筑工程将基于性能的地震工程、建筑工程全寿命周期环境与社会影响分析结合起来开展了综合性的研究和论述。本书是一本理论、应用和实践相结合全面论述建筑工程全寿命周期经济成本、地震成本、环境成本和社会成本的应用研究型著作。

Based on the summary and induction of predecessors' research experiences and his own research results, the author has written this research-oriented monograph that combines theory and application to meet the needs of current research on the entire life cycle and sustainability of civil construction. The book comprehensively studies and elaborates on civil engineering, combining performance-based seismic engineering and the environmental and social impact analysis of construction projects in the entire lifecycle. This book is an applied research work integrating theory, application, and practice to comprehensively discuss the economic costs, seismic costs, environmental costs, and social costs of construction projects during their entire lifecycles.

About Author:

朱健，男，教授，博士后，佛山大学土木工程专业硕士生导师，主要从事工程全寿命周期综合性能评价研究工作。

Zhu Jian, male, is a professor, postdoctoral fellow, and graduate supervisor in Civil Engineering at Foshan University. He is primarily engaged in the research of comprehensive performance evaluation throughout the engineering lifecycle.

基坑工程设计施工及风险控制

Design and Construction of Foundation Pit Engineering and Risk Control



作者：刘军、周与诚、白雪峰

Author: LIU Jun, ZHOU Yucheng, BAI Xuefeng

ISBN: 9787302626855

Publication Date: 2023/4/1

Page Count: 248

About the Book:

基坑工程是土木工程领域中一个极为重要的学科分支，涉及到工程地质与水文地质、土力学、基础工程、结构力学、土与结构相互作用、原位测试技术、施工技术以及环境岩土工程等诸多学科，综合性很强。基坑工程应用范围极为广泛，但事故发生率较高。本书以基坑工程风险控制为主线阐述了最常用支护结构形式的基坑工程设计与施工，不同支护结构的基坑工程设计与施工及风险控制自成体系。本书紧密结合社会发展需求，构建了基坑工程风险控制体系，不仅反映了学科前沿状况，还对超深基坑工程的发展及存在问题做了探讨，知识系统且理论密切联系实践。

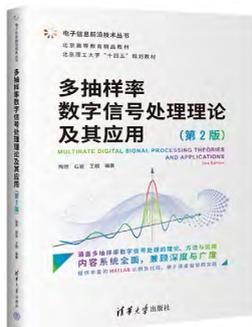
Foundation pit engineering is an imperative branch in civil engineering, involving various disciplines such as engineering geology and hydrogeology, soil mechanics, foundation engineering, structural mechanics, soil-structure interaction, in situ testing technology, construction techniques, and environmental geotechnical engineering, showing a high degree of comprehensiveness. Foundation pit engineering is extensively applied but is also troubled by a high accident rate. Focusing on the risk control of foundation pit engineering, this book elaborates on the design and construction of foundation pit engineering using the most common forms of support structures. Foundation pit engineering with different support structures form has design, construction, and risk control systems of its own. This book twins social development needs and constructs a risk control system for foundation pit engineering. It not only reflects the frontiers of this discipline but also discusses ultra-deep foundation pit engineering's development and existing problems. The knowledge presented is systematic, and the theories are closely linked to real-life practice.

About Author:

刘军，清华大学博士后，北京建筑大学教授，主要从事岩土与地下工程的研究与教学工作。

Liu Jun is a postdoctoral fellow at Tsinghua University and a professor at the Beijing University of Civil Engineering and Architecture, primarily engaged in research and teaching in geotechnical and underground engineering.

多抽样率数字信号处理理论及其应用（第2版）



Multirate Digital Signal Processing Theories and Applications

作者：陶然、石岩、王越

Author: TAO Ran, SHI Yan, WANG Yue

ISBN: 9787302610441

Publication Date: 2022/9/1

Page Count: 344

About the Book:

本书全面系统地阐述了多抽样率信号处理的理论、方法和应用。全书共12章，第1~4章为基础理论部分，主要包括：抽样率转换基础、多抽样率系统的网络结构与高效实现、两通道滤波器组、免通道滤波器组；第5~8章为扩展理论部分，主要包括：小波变换与滤波器组、分数域多抽样率信号处理、多维多抽样率信号处理、多尺度方向变换与方向滤波器组；第9~12章为应用部分，主要包括：多抽样率技术在MATLAB中的应用、滤波器组在数字通信中的应用、滤波器组在音频编码中的应用及小波变换在图像处理中的应用。

This book comprehensively and systematically elaborates on the theory, methods, and applications of multirate signal processing. It comprises 12 chapters in total. Chapters 1-4 introduce foundational theories, mainly including basic concepts of sample rate conversion, network structure and efficient implementation of multirate systems, two-channel filter banks, and channel-free filter banks. Chapters 5-8 explain extended theories, discussing wavelet transform and filter banks, fractional domain multirate signal processing, multi-dimensional multirate signal processing, multi-scale directional transforms, and directional filter banks. Chapters 9-12 are the application part, focusing on the use of multirate techniques in MATLAB, the application of filter banks in digital communication, the utilization of filter banks in audio coding, and the application of wavelet transform in image processing.

About Author:

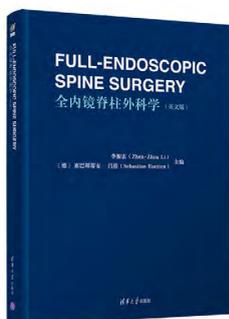
陶然，北京理工大学教授、博士生导师，北京市教学名师，研究方向为小波分析与图像处理。

王越，中国科学院院士、中国工程院院士，北京理工大学名誉校长。

Tao Ran is a professor and doctoral supervisor at the Beijing Institute of Technology and has won the Beijing Outstanding Teacher. He specializes in wavelet analysis and image processing.

Wang Yue is an academician of the Chinese Academy of Sciences and the Chinese Academy of Engineering and the Honorary President of Beijing Institute of Technology.

全内镜脊柱外科学(英文版)



Full-endoscopic Spine Surgery (English Version)

作者: 李振宙、塞巴斯蒂安·吕滕

Author: LI Zhenzhou, Sebastian Ruetten

ISBN: 9787302569718

Publication Date: 2021-03-01

Page Count: 560

About the Book:

本书主要介绍经皮脊柱内镜手术的一些学科内容, 包括脊柱解剖\脊柱疾病\脊柱相关手术过程和手术技巧。本书的设置能让读者有效缩短在经皮脊柱内镜技术方面的学习曲线。

This book is an introduction to the percutaneous endoscopic spinal surgery, including the procedures and techniques of spinal anatomy and other surgeries to treat spinal disorders. The book will enable readers to effectively shorten the learning curve in percutaneous endoscopic spinal techniques.

About Author:

李振宙, 解放军总医院第一附属医院脊柱外科主任医师。

LI Zhenzhou is Chief Physician at the Department of Spine Surgery of the First Affiliated Hospital of China PLA General Hospital.

语言、脑进化与认知



Language, Brain Evolution and Cognition

作者：江铭虎

Author: JIANG Minghu

ISBN: 9787302617266

Publication Date: 2022-11-01

Page Count: 720

About the Book:

脑与语言认知是一门新兴的交叉学科，语言是人类区别于其他动物的最重要特征，在人类进化过程中语言的使用成为人脑重量(从远古的300g增加到现在的1200~1400g)和容积增长的决定性因素，可以说人脑与语言是共同进化的。本书内容丰富，代表着本学科的国际前沿。

Brain and language cognition is an emerging interdisciplinary field. Language is the most critical feature that distinguishes humans from other animals. In the process of human evolution, language use is a decisive factor in the increase of brain weight (from 300 grams in ancient times to 1,200-1,400 grams now) and capacity, suggesting a co-evolution between the human brain and language. The book has rich content and represents the forefront of this discipline on an international level.

About Author:

江铭虎，清华大学计算语言学特聘教授、博士生导师。清华大学心理学与认知科学中心兼职教授。

Jiang Minghu is a tenured professor and doctoral supervisor of Computational Linguistics at Tsinghua University. He is also an adjunct professor at the Center for Psychology and Cognitive Science at Tsinghua University.

人体结构与功能基础

Structure and Functional Basis of the Human Body



作者: 刘尚明、易凡
Author: LIU Shangming, Yi Fan
ISBN: 9787302624080
Publication Date: 2023/4/1
Page Count: 314

About the Book:

人体结构与功能是阐述人体正常形态结构和生命活动规律、疾病发生发展过程以及药物与机体相互作用原理的整合性课程，主要内容共有四个方面，分别是人体正常的形态结构及其发生，正常生命活动及其规律，病理情况下人体结构和功能发生的变化以及会出现的症状与体征，以及药物在人体内的作用过程及其机制。通过学习，可以对人体正常形态结构活动规律、疾病发生发展过程、常见的症状体征、疾病的防治等有一个初步的认识，为后续个器官系统的整合课程学习打下坚实的基础。

The human structure and functions is an integrative course explaining the normal morphological structure and life activity rules of the human body, the process of disease occurrence and development, and the principles of drug-body interactions. It covers four main aspects, namely, normal morphological structure and its occurrence, normal life activities and their rules, changes in human body structure and functions under pathological circumstances as well as symptoms and signs that may occur, and how drugs take effect within the human body and its mechanisms. Through studying this book, readers can gain a preliminary understanding of the normal morphological structure and activity rules of the human body, the process of disease occurrence and development, common symptoms and signs, and disease prevention and treatment, which lays a solid foundation for subsequent integrated courses on organ systems.

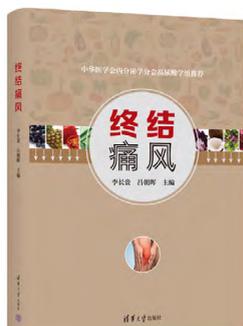
About Author:

刘尚明，副教授，山东大学实验教学示范中心常务副主任。

Liu Shangming is an associate professor, Executive Deputy Director of the Experimental Teaching Demonstration Center at Shandong University.

终结痛风

Ending Gout



作者: 李长贵、吕朝晖

Author: LI Changgui, LYU Zhaohui

ISBN: 9787302607441

Publication Date: 2022-06-01

Page Count: 220

About the Book:

痛风从罕见病到少见病历经了几个世纪, 但该病从少见病到常见病仅仅不到20年时间。面对这一突如其来的新生常见病, 广大患者及家属由于缺乏足够的知识储备, 在该病的预防、治疗等方面存在着许多误区和盲区, 导致该病及其相关并发症高发。为此, 中华医学会内分泌学分会高尿酸学组牵头组织该领域全国知名专家撰写了本书, 旨在普及痛风科学知识, 引导大家走出误区, 远离痛风, 终结痛风。

While it took centuries for gout to evolve from a rare disease to an infrequent disease, gout has transitioned into a common disease in less than two decades. Faced with the sudden emergence of this new common disease, many patients and their families have misconceptions and blind spots in the prevention and treatment of gout because of their insufficient knowledge reserves, resulting in a high incidence of gout and its related complications. Therefore, the Gout Study Group of the Chinese Society of Endocrinology has organized well-known experts in this field to write this book, aiming to popularize scientific knowledge about gout and guide people to eliminate misunderstandings, stay away from gout, and end gout.

About Author:

李长贵, 医学博士, 主任医师, 教授, 青岛大学代谢病研究院院长, 主要从事原发性高尿酸血症和痛风的基础及临床研究。

Li Changgui is a Ph.D. in Medicine, chief physician, professor, and Dean of the Metabolic Diseases Research Institute at Qingdao University. He is primarily engaged in both fundamental and clinical research on primary hyperuricemia and gout.

吕朝晖, 医学博士, 主任医师, 教授, 解放军总医院(301医院)第一医学中心内分泌科副主任, 主要从事内分泌及代谢疾病的基础及临床研究。

Lyu Zhaohui is a Ph.D. in Medicine, chief physician, professor, and Deputy Director of the Department of Endocrinology of the First Medical Center at the Chinese PLA General Hospital (301 Hospital). He specializes in endocrine and metabolic diseases.

钻石突变，十年磨一剑：ALK或ROS1阳性晚期肺癌患者10年生存录

Diamond Mutation and Decade of Grinding the Sword: 10-Year Survival Record of Advanced ALK or ROS1 Positive Lung Cancer Patients



作者：杨衿记
Author: YANG Jinji
ISBN: 9787302615569
Publication Date: 2022/9/1
Page Count: 213

About the Book:

本书讲述了抗癌之路上的平凡与伟大、艰辛与温情，记录了13名晚期肺癌患者与医生十余年的抗癌故事与诊疗过程。本书既从循证思维出发，多角度展示肿瘤治疗过程；又从叙事思维出发，记录了医者和患者的思考与感受。从人文与学术的角度分别讲述了创新治疗方式的临床应用，体现了科学技术的不断进步和医学人文价值的回归和升华，是一本注重学科权威性和医学人文精神的著作。

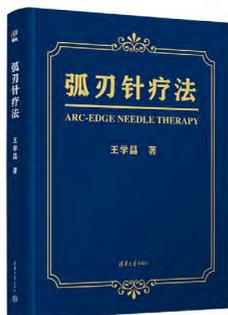
This book tells the story of ordinary and great endeavors, hardships, and tender feelings on the cancer treatment journey. It chronicles the stories of 13 patients with advanced lung cancer and their doctors over more than a decade of cancer-fighting and medical treatment. This book presents the evidence-based tumor treatment process from multiple angles. Furthermore, it records the thoughts and feelings of both doctors and patients in a story-telling way. It separately narrates the clinical application of innovative treatment methods from humanistic and academic angles, reflecting the continuous progress of science and technology and then the humanistic value and sublimation of medicine. It is a work that emphasizes both the authority of the discipline and the humanistic spirit of medicine.

About Author:

杨衿记，主任医师，中共广东省人民医院肿瘤中心肺内一科主任，主要研修临床肿瘤学与早期临床试验。

Yang Jinji is a chief physician, doctoral supervisor, Director of the Cardiopulmonary Medicine I of Tumor Center at Guangdong Provincial People's Hospital. His researches focus on clinical oncology and early clinical trials.

弧刃针疗法



Arc-Edge Needle Therapy

作者：王学昌

Author: WANG Xuechang

ISBN: 9787302599609

Publication Date: 2022/4/1

Page Count: 408

About the Book:

本书不仅描述了弧刃针的定义、发明过程、治疗原理，适应证和禁忌证等，还详细描述了临床常见的颈肩腰腿疼痛，从颈部病变的颈椎病、落枕，肩部病变的肩周炎、肩袖损伤等，腰髋部的腰椎间盘突出症、腰椎管狭窄症、腰肌劳损、股骨头坏死、髋关节滑膜炎等，到四肢的腱鞘炎、网球肘、跖痛症、膝关节骨关节炎等，对于脊柱相关病、神经病理性疼痛、非疼痛性疾病等临床相对采用针刀类治疗记载较少的一些病变，也将做详尽的描述。本书特色鲜明，不仅适合于疼痛科医生，对于针灸科、推拿科、骨科、康复科等医生都适合，是一本相对不可缺少的临床指导用书。

This book not only introduces the arc-edge needle's definition, invention process, treatment principles, indications, and contraindications but also describes in detail common clinical conditions like neck, shoulder, lower back, and leg pain. It covers neck lesions (cervical spondylosis and stiff neck), shoulder lesions (shoulder tendinitis and rotator cuff injuries), lumbar and hip pains (protrusion of lumbar intervertebral disc, lumbar spinal stenosis, lumbar muscle strain, femoral head necrosis, and hip synovitis), and lesions in four limbs (tenosynovitis, tennis elbow, plantar fasciitis, and knee osteoarthritis). It also extensively addresses clinical conditions where acupotomy therapy has been less recorded, such as spine-related diseases, neuropathic pain, and non-pain-related conditions. With its distinctive features, this book suits not only pain specialists but also acupuncturists, tuina massagists, orthopedists, and rehabilitation physicians, making it an indispensable clinical guidebook.

About Author:

王学昌，河南中医药大学颈肩腰腿痛与针刀医学研究所所长，河南省中医院疼痛科创科主任。

Wang Xuechang is the Director of the Cervicodynia, Omalgia, and Lumbocrual Pain and Acupotomy Medical Research Institute at Henan University of Chinese Medicine, first Director of the Pain Department at Henan Province Hospital of TCM.

软组织外科学：密集型银质针治痛

Soft Tissue Surgery: Intensive Silver Needle Therapy for Pain



作者：刘荣国

Author: LIU Rongguo

ISBN: 9787302611240

Publication Date: 2022/8/1

Page Count: 336

About the Book:

全书共分6章，主要包括银质针导热巡检仪的作用机制、适应证、操作方法、注意事项和研究进展，以及肌筋膜痛和纤维肌痛的临床诊断方法，常见软组织痛的银质针导热疗法。重点介绍常见软组织痛的银质针导热疗法。内容翔实，通俗易懂，体现了理论与实践相结合、实用与指导于一体的特色，是疼痛科医生必备的学习参考书。

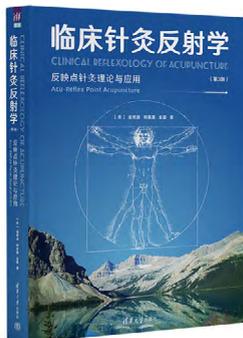
The book is divided into six chapters, mainly covering the working mechanism, indications, operation methods, precautions, and research progress of the silver needle and the heat conducting & temperature control equipment. It also discusses the clinical diagnostic methods for myofascial pain and fibromyalgia, as well as the silver needle and heat conducting therapy for common soft tissue pain. The focus is on the silver needle and heat conducting therapy for common soft tissue pain. The informative and easy-to-understand content combines theories with practice and integrates practicality with guidance, making the book an essential learning reference for pain specialists.

About Author:

刘荣国，主任医师，教授，医学博士，福建医科大学硕士生导师，福建省立医院疼痛科主任，负责慢性疼痛诊疗业务。

Liu Rongguo is a chief physician, professor, Ph.D. in Medicine, graduate supervisor at Fujian Medical University, and Director of the Pain Department at Fujian Provincial Hospital, responsible for the diagnosis and treatment of chronic pain.

临床针灸反射学(第3版)



Clinical Reflexology of Acupuncture (3rd Edition)

作者: [美]金观源 相嘉嘉 金雷

Author: (The US) JIN Guanyuan, XIANG Jiajia,
JIN Lei

ISBN: 9787302613404

Publication Date: 2022/10/1 Page Count: 600

About the Book:

本书应用反射学的观点,把经络归结为人体的生理、病理反射系统,提出针灸疗法是一种反射疗法,使传统的针灸疗法与经络学说面目一新,并为它们与现代医学之间架起了一座桥梁。本书集古今中外研究者包括作者37年来在国内外从事针灸临床、科研的丰硕成果与经验,阐释经络的实质与探讨针灸疗法的主要技术理论,尤其注重从临床实际出发,分析针灸治疗常见顽固病症时的难点与提高疗效的途径,故它不仅是针灸临床、科研、教学人员的高级参考书,也是西医学习、融合针灸疗法的理想教材。通过提供了大量的问题和案例,用深入浅出的内容来诠释一些精神分析理论的心理知识;帮助国内针灸专业人员提升临床实践分析能力和治疗效果。

This book applies the perspective of reflexology to categorize meridians as a physiological and pathological reflex system within the human body. It proposes that acupuncture therapy is a form of reflex therapy, presenting an entirely new angle for traditional acupuncture therapy and the meridian theory and also bridging the gap between them and modern medicine. The book compiles the abundant achievements and experiences of Chinese and foreign researchers throughout history, including the authors' clinical and research work in acupuncture both domestically and internationally over 37 years. It elucidates the essence of meridians and explores the main technical theories of acupuncture therapy. In particular, it emphasizes clinical practice, analyzing the difficulties in treating common refractory diseases with acupuncture and ways to enhance the curative effect. Therefore, this book serves not only as an advanced reference for clinical practitioners, researchers, and educators in acupuncture but also as an ideal textbook for Western medical professionals seeking to learn about and incorporate acupuncture therapy. By providing numerous questions and case studies, the book explains psychological knowledge related to psychoanalytical theories using simple language. It aids Chinese acupuncture professionals in improving their clinical analysis skills and treatment outcomes.

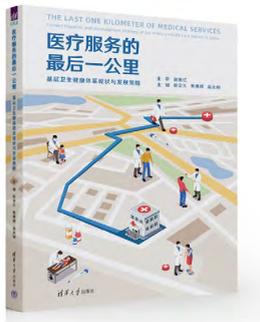
About Author:

金观源, 美国国际整体医学研究所所长, 美国国立卫生研究院基金评审专家。

Jin Guanyuan is the President of International Institute of Holistic Medicine in the United States, an expert in reviewing the Foundation for the National Institutes of Health.

医疗服务的最后一公里：基层卫生健康体系现状与发展策略

The Last One Kilometer of Medical Services: Current Situation and Development Strategy of the Primary Health Care System in China



作者：张宗久、焦雅辉、高光明

Author: ZHANG Zongjiu, JIAO Yahui,
GAO Guangming

ISBN: 9787302608776

Publication Date: 2022/9/1 Page Count: 256

About the Book:

本书包含三大部分内容，第一部分是专题研究，通过回顾性研究，围绕当下基层卫生健康服务体系中的关键政策，以及人民群众关注的热点问题，例如紧密型县域医共体、社区卫生机构、基层卫生人才等展开政策梳理、数据分析，给读者以全方位的现状呈现，并有针对性的提出策略建议。第二部分是地方实践成果展示，以实录形式重点呈现了本书研究团队调研上海市、宁夏回族自治区、四川省等地区在分级诊疗、“互联网+健康”、公共卫生以及专科联盟等方面建设过程中面临的困难、取得的收获、可供借鉴的经验。同时，本书还在第三部分将本书涉及到的基层卫生健康相关名词梳理了中英词汇对照表，列举了基层医疗卫生核心信息释义，以便读者进一步进行国内、国际文献检索学习。

The book comprises three major parts. The first part is specialized studies. Through a retrospective analysis, it reviews policies and analyzes data revolving around key policies in the current primary healthcare service system as well as hot topics of public concern, such as tightly knit county-level medical consortiums, community healthcare institutions, and primary healthcare personnel. This part offers readers a comprehensive overview of the current situation, along with targeted strategic recommendations. The second part showcases practical achievements in local regions, primarily documenting the research team's investigations into areas such as Shanghai, Ningxia Hui Autonomous Region, and Sichuan Province, addressing their challenges faced, achievements gained, and experiences that can serve as references in hierarchical diagnosis and treatment, "Internet+ Healthcare," public healthcare, and specialty alliances. In the meantime, the third part lists a bilingual glossary in Chinese and English for terms related to primary healthcare, offering core information and definitions of primary medical and healthcare so that readers can further search in Chinese and international literature.

About Author:

张宗久，现任清华大学医院管理研究院常务副院长、教授、首席研究员、博士生导师，清华大学医院管理研究院医疗数据标准化研究中心主任。

Zhang Zongjiu is currently the Executive Dean, professor, chief researcher, and doctoral supervisor at the Institute for Hospital Management of Tsinghua University, and Director of the Medical Data Standardization Research Center, Institute for Hospital Management of Tsinghua University.

数字化转型时代：精准医学创新研究与产业发展报告（2022年版上册）



The Era of Digital Transformation: A Report on the Innovative Research and Industrial Development of Precision Medicine (2022 Edition Volume One)

作者：饶克勤、张宗久、王波、陈赛娟

Author: RAO Keqin, ZHANG Zongjiu,

WANG Bo, CHEN Saijuan

ISBN: 9787302620549

Publication Date: 2022/12/1 Page Count: 292

About the Book:

本书系统阐述了全球科技、数字经济和现代医学发展具有重大影响的技术突破和未来发展方向，归纳和梳理我国精准医学、智慧医学和未来医学发展的进程、机遇和挑战。从肝癌、肺癌、乳腺癌、新冠肺炎和结核病、心血管疾病、脑血管病、儿童先天性心脏病和阿尔茨海默病等重大疾病精准防治、转化医学、健康大数据、人群队列的原创研究。通过186项前沿科技分析，展现了生命科学、临床医学、数据科学、医工交叉等前沿科技和未来医学的发展，影响精准医学发展的前沿科技，到精准医学市场规模和产业发展进行了系列分析。本书可为大健康领域的临床医务工作者、科研人员提供参考。

This book systematically demonstrates the technological breakthroughs with a significant impact in the fields of science and technology, digital economy, and modern medicine, as well as the future development directions. It summarizes and outlines the progress, opportunities, and challenges of precision medicine, intelligent medicine, and future medicine development in China. The book presents original research on precise prevention, diagnosis, and treatment, translational medicine, health big data, and population cohorts for major diseases such as liver cancer, lung cancer, breast cancer, COVID-19, tuberculosis, cardiovascular diseases, cerebrovascular diseases, congenital heart diseases in children, and Alzheimer's disease. Through the analysis of 186 advanced technologies, it showcases cutting-edge technologies such as life sciences, clinical medicine, data science, and medicine-engineering interdisciplinary cooperation, as well as the future medicine development and frontier technologies influencing precision medicine development. It provides a series of analyses on the scale and industry development of the precision medicine market. This book can serve as a reference for clinical medical practitioners, researchers in the comprehensive health field.

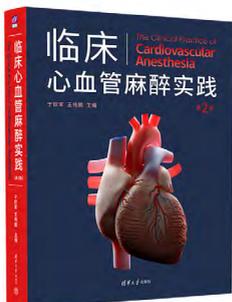
About Author:

饶克勤，清华大学医院管理研究院教授，中国卫生经济学会会长，研究专长覆盖公共卫生、流行病学与卫生统计学等。

Rao Keqin is a professor at the Institute for Hospital Management of Tsinghua University, President of the China Health Economics Association. His research expertise covers public health, epidemiology and health statistics.

临床心血管麻醉实践

The Clinical Practice of Cardiovascular Anesthesia



作者：于钦军、王伟鹏

Author: YU Qinjun, WANG Weipeng

ISBN: 9787302610663

Publication Date: 2022/6/1

Page Count: 739

About the Book:

在促进心脏外科发展的诸多因素中，心血管麻醉占有极其重要的地位。评价心血管外科水平的高低以及治疗水平的好坏，不仅取决于外科医师的水平，更重要的是包括麻醉在内的所有参加心脏外科治疗工作的综合实力和整体水平。以中国医学科学院阜外医院麻醉科医师为主要编者的《临床心血管麻醉实践（第2版）》力求紧密结合临床，全面总结了心血管麻醉的新进展和新理念，内容涉及心血管麻醉的各方面内容，为初入心血管麻醉领域的中青年和基层麻醉科医师提供了从理论到实践的实用参考。

Among the many factors propelling the development of cardiac surgery, cardiovascular anesthesia holds a pivotal position. The evaluation of the level of cardiac surgery and the quality of treatment depends not only on the skill of surgeons but also on the comprehensive strength and overall level of all participants, including anesthetists. The book, mainly edited by anesthesiologists from Fuwai Hospital, CAMS & PUMC, aims to closely integrate clinical practices and comprehensively summarize the new developments and concepts in cardiovascular anesthesia. The book covers various aspects of cardiovascular anesthesia, providing practical references on how to put theory into practice for young and middle-aged and grassroots anesthetists who are new to the field.

About Author:

于钦军，中国医学科学院阜外医院主任医师，从事临床麻醉30多年，完成心血管麻醉超万例。

Yu Qinjun is a chief physician of Fuwai Hospital, CAMS & PUMC. With over 30 years of experience in clinical anesthesia, he has completed over ten thousand cases of cardiovascular anesthesia.

实验室生物安全能力建设



Laboratory Biosafety Capacity Building

作者：武桂珍

Author: WU Guizhen

ISBN: 9787302623588

Publication Date: 2023/4/1

Page Count: 240

About the Book:

实验室的生物安全主要体现在实验室广泛收集、研究多种多样的微生物特别是病原微生物，并且大量利用现代生物技术进行基因操作，从而使微生物获得新的特征，甚至人工合成微生物。对微生物遗传物质进行改构与修饰，可使微生物获得毒力、毒性、感染性或耐药性增强、感染途径或环境适应性改变等特征，这些遗传工程微生物可能使实验操作人员不慎感染，或者泄露到自然界而感染实验室以外的人员，甚至在自然界继续发生“恶性”变异，那么就可能对人类社会的健康安全造成严重威胁。通过对生物风险管理、AMP模型、风险评估过程的定义，以及对设计策略、缓解措施、培训计划的详细阐述，提出以可靠性为中心的维护应该是生物风险管理维护计划的框架。

The biosafety concerns in laboratories primarily stem from laboratories' wide collection and study of various microorganisms, especially pathogenic microorganisms. Moreover, modern biotechnology is extensively employed for genetic manipulation, resulting in microorganisms with new traits and even artificially synthesized microorganisms. Structure change and modification of microbial genetic material can give microorganisms virulence, toxicity, and infectivity or change their traits, such as enhanced drug resistance and altered infection routes and adaptiveness to environments. These genetically engineered microorganisms can potentially lead to unintended infections among laboratory personnel, infections of people outside the laboratory due to accidental release into the natural environment, and even subsequent "malevolent" mutations in the natural environment, posing severe threats to human health and safety. By defining biological risk management, the AMP model, and the risk assessment process, as well as detailing design strategies, mitigation measures, and training plans, this book proposes that reliability-centered maintenance should be the framework for the biological risk management and maintenance plan.

About Author:

武桂珍研究员，中国疾控中心生物安全首席专家，亚太生物安全协会主席。

Researcher Wu Guizhen is a chief expert on Biological Safety at the Chinese Center for Disease Control and Prevention, Chairwoman of the Asia-Pacific Biosafety Association.

昆虫体表复合浸润性与仿生设计

Complex Wettability and Bionic Design of Insect Body Surface



作者: 孙刚、房岩

Author: SUN Gang, FANG Yan

ISBN: 9787302620259

Publication Date: 2022/1/1

Page Count: 279

About the Book:

作者以昆虫体表的复合浸润性及其仿生设计为主题,在悉心整理多年工作和成果积累的基础上,综合了国内外最新研究进展和文献资料,著成《昆虫体表复合浸润性与仿生设计》。全书分为五个部分,共包括19章。第一部分(第1~4章)为“仿生学概述”,较为系统地总结了仿生学的发展、仿生学研究内容、仿生学研究方法和仿生学经典案例;第二部分(第5~7章)为“表面仿生研究进展”,主要介绍了浸润性研究进展、生物表面浸润性研究动态和表面仿生制备研究进展;第三部分(第8~10章)为“昆虫体表特殊浸润性”,阐述了昆虫体表多级结构和复合浸润性,重点分析了昆虫体表浸润机理;第四部分(第11~13章)为“昆虫体表仿生设计”,论述了昆虫体表仿生制备成果、极端浸润性表面的应用以及昆虫仿生研究热点;第五部分(第14~19章)为“仿生学最新成果”,详述了人工智能、仿生材料、生物计算、生物芯片、分子仿生等热点和前沿研究领域。

The authors focus on the topic of the complex wettability of insect body surfaces and their bionic design. The book is divided into five parts comprising 19 chapters in total. The first part (Chapters 1-4) presents an “Overview of Bionics,” systematically summarizing the development of bionics, its research content, methodologies, and classic cases. The second part (Chapters 5-7) is the “Surface Bionic Research Progress,” primarily introducing the research progress in wettability, research dynamics of wettability of biological surfaces, and advancements in surface bionic manufacturing. The third part (Chapters 8-10) covers “Special Wettability of Insect Body Surfaces,” expounding on multi-level structures and complex wettability of insect body surfaces, with a focus on analyzing the wettability mechanisms of insect body surfaces. The fourth part (Chapters 11-13) discusses “Bionic Design of Insect Body Surfaces,” addressing the outcomes of the bionic manufacturing of insect body surfaces, applications of extreme wettability surfaces, and current research hotspots in insect bionics. The fifth part (Chapters 14-19) is the “Latest Bionic Achievements,” detailing popular and frontier research areas like artificial intelligence, bionic materials, biocomputing, biochips, and molecular bionics.

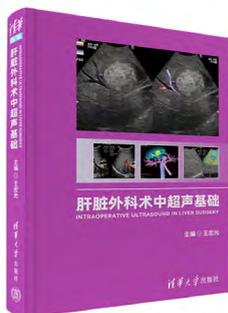
About Author:

孙刚, 博士(后), 教授, 福建省闽江学者、国家自然科学基金通讯评审专家。

Dr. Sun Gang is a postdoctoral fellow and professor. He is the Minjiang Scholar of Fujian Province, corresponding expert reviewer for the National Natural Science Foundation of China.

肝脏外科术中超声基础

Intraoperative Ultrasound in Liver Surgery



作者: 王宏光

Author: WANG Hongguang

ISBN: 9787302622260

Publication Date: 2023/2/1

Page Count: 391

About the Book:

术中超声作为肝脏外科医师的“第三只眼”得到了越来越广泛的应用，如何帮助更多的外科医师掌握术中超声技术，从而精准地完成肝脏外科手术成为紧迫的任务。本书共5章30节：第1章介绍了肝脏外科术中超声发展和“中国肝胆外科术中超声学院”，并从外科医师学习角度详细阐述了日本肝脏外科术中超声和手绘图培训、精细解剖、三维重建、解剖性肝切除以及术中超声基本操作等；第2章则从经皮、开腹、腹腔镜超声角度对肝脏解剖分段进行了详细介绍；第3章结合超声造影和弹性成像论述如何使用术中超声对肝脏肿瘤进行术中诊断与评估；第4章着重阐述术中超声引导的消融适应证、联合融合影像超声和超声造影的操作要点及不同消融工具的特点；第5章手术实战篇则针对我国高发的肝胆管结石和肝脏肿瘤，通过经皮、开腹、腹腔镜、机器人、肝移植等治疗手段，详细介绍了术中超声的应用。

Intraoperative ultrasound has been extensively employed as a “third eye” of liver surgeons. This book consists of five chapters and 30 sections: Chapter 1 introduces the development of intraoperative ultrasound in liver surgery and the Chinese IOUS Academy of HPB Surgery. It further elaborates on Japanese hepatic surgery’ training on intraoperative ultrasound and hand-drawn diagrams, detailed anatomy, 3D reconstruction, anatomical hepatectomy, and basic intraoperative ultrasound operations. Chapter 2 provides a detailed sectional description of liver anatomy from the perspectives of percutaneous, opening, and laparoscopic ultrasonography. Chapter 3 combines ultrasound contrast and elastography to demonstrate how to use intraoperative ultrasound in diagnosing and evaluating liver tumors. Chapter 4 focuses on intraoperative ultrasound-guided ablation indications, key operation points for fusion image-guided ultrasound and ultrasound contrast, and the characteristics of different ablation tools. Chapter 5 is about surgical practices, extensively covering the application of intraoperative ultrasound in treating common diseases in China, such as hepatic calculus and liver tumors through percutaneous, opening, laparoscope, robotics, and liver transplantation methods.

About Author:

王宏光，国家癌症中心—中国医学科学院肿瘤医院肝胆外科副主任，河北分院肝胆外科主任。Wang Hongguang is the Deputy Chief of Hepatobiliary Surgery at the Cancer Hospital, Chinese Academy of Medical Sciences, and Director of Hepatobiliary Surgery at the Hebei Branch.

机器人肾移植手术学



Robotic Kidney Transplantation

作者: 孙洵

Author: SUN Xun

ISBN: 9787302631309

Publication Date: 2023/4/1

Page Count: 228

About the Book:

孙洵教授充分汲取达·芬奇机器人在外科手术中的特殊优势,结合传统手术的要点及机器人手术系统的特性,逐步改良手术步骤,在保留传统肾移植手术优势的前提下,还利用机器人手术系统的特殊优势,让如肥胖、巨大多囊肾、腹部多次手术史、血管条件特殊、机会性感染发生率高等患者重获手术机会,使肾移植的适应证进一步扩大,手术的安全性进一步提高,机器人肾移植技术必将成为一种新的肾移植手术方式。全书共 10 章,内容从临床工作中来,以文字、图解和手术视频的方式详细记录了伦理、术前准备、麻醉评估及管理、手术的重点和难点、手术步骤、术后并发症的防治、亲体取肾术、亲体和捐赠肾移植的全过程,对移植医护团队面临的具体工作有很强的指导性。

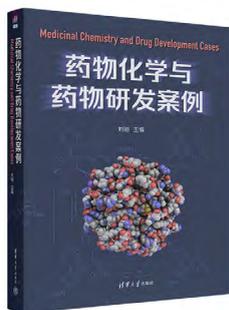
Drawing from the unique advantages of da Vinci robotic technology in surgical procedures, Professor Sun Xun combines key points of traditional surgery with the characteristics of robotic surgical systems to gradually improve surgical steps. While preserving the advantages of traditional kidney transplantation, he utilizes the special advantages of robotic surgery systems, allowing patients with challenging conditions such as obesity, large polycystic kidneys, multiple prior abdominal surgeries, complex vascular conditions, and high rates of opportunistic infections to have opportunities for surgery. This expands indications for kidney transplantation and enhances surgical safety. The book comprises 10 chapters. Based on clinical experience, it uses texts, illustrations, and surgical videos to thoroughly documents the ethics, preoperative preparation, anesthesia assessment and management, key aspects and challenges of the surgery, surgical steps, prevention and treatment of postoperative complications, living-related-donor nephrectomy, and the entire process of the kidney transplantation with living-related-donors and donors. It provides strong guidance for the practical work faced by transplant medical teams.

About Author:

孙洵,主任医师,现任昆明市第一人民医院泌尿外科、肾移植中心主任。

Sun Xun is a chief physician and currently serves as the Director of the Department of Urology and Kidney Transplantation Center at the First People's Hospital of Kunming.

药物化学与药物研发案例



Medicinal Chemistry and Drug Development Cases

作者: 刘刚

Author: LIU Gang

ISBN: 9787302620266

Publication Date: 2022/6/1

Page Count: 788

About the Book:

本书由有机化学实验、每章小结和习题解析等部分组成。有机化学实验部分精选了12个实验,分别属于基本操作实验、化合物的制备与提纯实验和综合设计性实验。学习指导部分对Organic Chemistry 各章节内容从知识要点,习题解析等方面进行辅导,并对教材中的习题全部给出解答。本书适合来华医学留学生全英教学和本科双语教学使用的教材配套实验和学习指导。

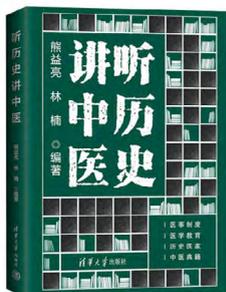
This book consists of organic chemistry experiments, chapter summaries, and exercise explanations. The organic chemistry experiments part features 12 carefully selected experiments, covering basic operations, compound synthesis and purification, and comprehensive design experiments. The study guide provides assistance for chapters in Organic Chemistry, including key concepts and exercise explanations, and offers solutions to all textbook exercises. The book is suitable as a supporting experiment and study guide in English-taught curriculums for international medical students studying in China or bilingual courses for undergraduate students.

About Author:

刘刚,清华大学药学院终身教授,清华大学药学院创始人,教育部长江学者特聘教授,清华大学百人教授,协和学者特聘教授,中国药学会科学进步一等奖获得者。

Liu Gang is a tenured professor at the School of Pharmaceutical Sciences, Tsinghua University, founder of the School of Pharmaceutical Sciences, Changjiang Scholar Distinguished Professor appointed by the Ministry of Education, professor selected for the "Hundred Talents Program" of Tsinghua University, distinguished professor of the Scholars of Peking Union Medical College, and recipient of the First Prize of Scientific Progress from the China Pharmaceutical Association.

Listen to History and Talk About Chinese Medicine



作者：熊益亮、林楠

Author: XIONG Yiliang, LIN Nan

ISBN: 9787302583035

Publication Date: 2022/5/1

Page Count: 348

About the Book:

本书谨遵正本清源的原则，从包含但不限于的二十六史、通志类史著、通考类史著中，甄别和整理了古代医事制度、中医教育发展历程、中医传承和人才培养、历代医书目录，同时采用新颖的、结合现代学科属性分类的写作方式，厘清史学和中医学的学科范畴，所论皆有依据。书中中国古代医事制度的废立，我们可以借鉴如何立规矩、定制度；书中中医传承、人才培养，中医教育发展历程，细节发人深省；在关于大医名医，书中精选了21位对医学传承和后世影响深远的代表医家在医学方面的突出贡献和趣事。

Following the principle of solving problems from the roots, this book systematically sifts through ancient medical systems, the development of traditional Chinese medicine education, its inheritance and talent cultivation, and catalogs of medical works from various historical periods through all kinds of records, including but not limited to the Twenty-Six Histories, comprehensive historical records, and comprehensive verified historical books. Meanwhile, using a novel approach that combines modern interdisciplinary attributes, it clarifies the disciplinary boundaries of history and TCM, all based on well-founded evidence. The book discusses the establishment and repeal of ancient Chinese medical systems, which we can refer to for rule-making and system establishment. The book explores TCM inheritance, talent cultivation, and TCM education development, offering thought-provoking details. The book also presents 21 prominent medical figures who have far-reaching influence on future generations.

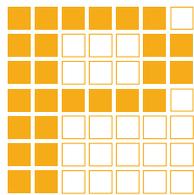
About Author:

熊益亮，北京中医药大学副教授，主要从事中医药文献、文化教学和科研。

Xiong Yiliang is an associate professor at Beijing University of Chinese Medicine. He is mainly engaged in the teaching and research of traditional Chinese medicine literature and culture.

林楠，福建中医药大学教授，曾任福建中医药大学中医学院副院长，中医医史文献学科带头人。

Lin Nan is a professor at the Fujian University of Traditional Chinese Medicine. She previously served as the Vice Dean of the School of Traditional Chinese Medicine at Fujian University of Traditional Chinese Medicine. She is a leading figure in the discipline of Traditional Chinese Medicine History and Literature.



科普 少儿
Popular Science and
Children's Books

于是一片光明：1543—1957人类科学探索四百年

And Then There is Brightness: 400 years of scientific exploration from 1543 to 1957



作者：汪有

Author: WANG You

ISBN: 9787302629481

Publication Date: 2023/6/1

Page Count: 400

About the Book:

作者像是人类四百年科学探索史的“说书人”，用精准、优雅的语言讲述了从哥白尼发表《天体运行论》之后的科学发展的历程，展示了人类群星闪耀的光辉，鲜活的科学故事，近代科学大厦是如何建立的，以及科学发展的历史必然性。探讨了科学精神的本质和推动科学发展的力量。同时也介绍了数学、物理、化学、生物等方面的知识。本书史料可信、思想连贯、叙述生动，人类探索科学400年的恢弘历史跃然纸上。

The author is like a “storyteller” of humans’ scientific exploration over 400 years, narrating the course of scientific development since Copernicus published his accurately and elegantly written *On the Revolutions of the Heavenly Spheres*, showcasing the glorious achievements of mankind, the vivid stories of science, how the modern scientific edifice was established, and the historical inevitability of the development of science. The book explores the nature of the scientific spirit and the forces that drive science. Meanwhile, it also introduces math, physics, chemistry, and biology. This book is characterized by its trustworthy historical materials, coherent ideas, and vivid narration, vividly portraying the grand history of humanity’s four centuries of scientific exploration.

About Author:

汪有，香港中文大学工商管理学院毕业，历史系辅修。自媒体人。

Wang You graduated from the CUHK Business School with a minor in History. He is a we-media practitioner.

旱域探奇湖：亚洲中部干旱区的22个湖泊

Exploration of Lakes in Dryland:
22 Lakes in the Arid Zone of
Central Asia

作者：刘瑛

Author: LIU Ying

ISBN: 9787302629023

Publication Date: 2023/3/1

Page Count: 296

About the Book:

本书展示了亚洲中部干旱区特色鲜明、风景各异，且见证了地球沧海桑田变化的22个湖泊，其中包括新疆的湖泊16个，青海的湖泊3个，中亚的湖泊3个。这些湖泊中，有一些人迹罕至、与世隔绝，只有科考队才能涉足；有一些名声远扬、游人如织，是人们向往的旅游打卡地；也有一些，在近100年时间里，在干涸与复活中百转千回地徘徊；还有一些，早已消失在历史的烟尘中，成为大地的烙印。

The book displays 22 lakes in the arid regions of Central Asia that have distinctive features and diverse scenery and have witnessed the ever-changing landscapes of the Earth. Among them, 16 lakes are located in Xinjiang, three in Qinghai, and three in Central Asia. Some of these lakes are rarely visited, secluded from the world, accessible only by scientific expeditions. Some are renowned and bustling tourist attractions people look forward to visiting. Some have been lingering between drying up and reviving over the past century. And some others have vanished into history, becoming marks stamped into the land.

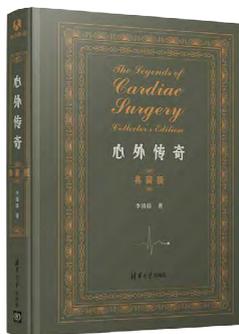
About Author:

刘瑛，科学传播研究馆员，中国科学院新疆生态与地理研究所副编审，中国科普作家协会理事，中国自然资源学会副秘书长。

Liu Ying is a researcher at the Research Center of Science Communication, Chinese Academy of Sciences and serves as the Associate Senior Editor at the Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences. She is also a board member of the China Science Writers Association and the Deputy Secretary-General of the China Society of Natural Resources.

心外传奇（典藏版）

The Legends of Cardiac Surgery (Collector's Edition)



作者：李清晨

Author: LI Qingchen

ISBN: 9787302597643

Publication Date: 2022/3/1

Page Count: 344

About the Book:

这是一部科普书，更是一部外科史，它围绕着心脏外科发展各个阶段的一系列人和事展开叙述，在故事发展中展示了人类挑战心脏禁区的独特科学历程，完全可以称为“像小说一样好看的医学史”。虽然作者的这部作品是在十年前完成的《心外传奇》的基础上重新创作完成的，但作者增加了大量新史料和新思考，并对一些关键史实重新做了纠正，增加人工心脏的故事。

This book is not only a popular science book but also a history of surgery. It unfolds around individuals and events across different stages of cardiac surgery development. As stories progress, it presents the unique scientific journey of mankind's challenge into the forbidden territory of the heart, which can be aptly described as "medical history as gripping as a novel." Although this work is a recreation of the author's *The Legends of Cardiac Surgery* published ten years ago, the author has added substantial new materials and fresh perspectives while also rectifying certain key historical facts and adding stories about the artificial heart.

About Author:

李清晨，医学硕士，现就职于哈尔滨市儿童医院心胸外科，长期为多家出版社或各种媒体撰写文字作品、专栏，以及影视剧本，文风多样，以科学普及和传播为主。

Li Qingchen, Master of Medicine, currently works in the Cardiothoracic Surgery Department at Harbin Children's Hospital. He has been writing texts, columns, and TV and film scripts for various publishing houses and media outlets. He writes with diverse styles, primarily focusing on science popularization and communication.

宇宙拓荒记

Pioneering Work of the Universe



作者：张拯宁、贺然

Author: ZHANG Zhengning, HE Ran

ISBN: 9787302558842

Publication Date: 2021/1/1

Page Count: 296

About the Book:

本书主要包括三方面内容，第一类是诸如『卫星最后都是什么归宿？』这样的科普故事；第二类是航天爱好者感兴趣的一些有趣的工程问题，例如航天器轨道是如何设计和测定的？第三类是探索更远的宇宙空间需要解决的一些问题，比如为什么深空探测地面上要那么大的天线？

This book encompasses three main categories. The first category involves popular science stories like “where satellites ultimately end up.” The second one includes intriguing engineering questions that capture the interest of space enthusiasts, such as how spacecraft orbits are designed and determined. The third delves into the challenges to be addressed to explore distant outer space, including why such large ground-based antennas are required for deep space exploration.

About Author:

张拯宁，中国航天五院高级工程师，主要研究方向为卫星遥感、卫星通信、人工智能技术、无人机系统应用等。

Dr. Zhang Zhengning is a professor of the China Academy of Space Technology, specializing in satellite applications. Apart from his research, Dr. Zhang is an acclaimed science writer.

图解人工智能



Illustrated Introduction to Artificial Intelligence

作者：王东、马少平

Author: WANG Dong, MA Shaoping

ISBN: 9787302637127

Publication Date: 2023/7/1

Page Count: 124

About the Book:

本书从基础概念、历史沿革、基础算法、代表性应用、最新研究进展、跨学科交叉成果等多个方面深入介绍人工智能。为满足不同程度学习者的学习需求，全书以图片为主并辅以少量文字说明，每节配有“小清爱提问”在线视频，具有初等阅读能力的读者可以轻松获得人工智能的基础知识和全局视野；每一节还包括扩展学习资料、深入阅读材料和编程实践资源供高等阅读能力的读者自学提高。为配合课堂教学，全书每一节都配有PPT课件、附加视频资料、互动演示程序等教学资源。

This book provides a comprehensive introduction to artificial intelligence, covering various aspects such as fundamental concepts, historical development, basic algorithms, representative applications, latest research advancements, and interdisciplinary achievements. To support learners of different levels, the book primarily uses images accompanied by concise explanations. Each section is supplemented with online videos, so that elementary school students can easily acquire foundational knowledge and a holistic perspective of artificial intelligence. Additionally, each section includes supplementary learning materials, in-depth research papers, and programming practice resources for self-improvement by readers. To facilitate classroom teaching, each section of the book is accompanied by PowerPoint slides, additional video resources, and interactive demonstration programs as teaching aids.

About Author:

王东，英国爱丁堡大学博士，清华大学副研究员，清华人工智能研究院听觉研究中心副主任。

Wang Dong, Ph.D. from the University of Edinburgh in the United Kingdom, is an Associate Professor at Tsinghua University and the Deputy Director of the Auditory Research Center at the Institute for Artificial Intelligence of Tsinghua University.

马少平，清华大学计算机系教授，博世知识表示与推理冠名教授，在人工智能教育领域有丰富经验。

Ma Shaoping is a professor in the Department of Computer Science at Tsinghua University and holds the Bosch Endowed Professorship in Knowledge Representation and Reasoning. He has rich experience in the field of AI education.

漫话人工智能：从二进制到未来智能社会

Hello! AI: From Binary to Future Intelligent Society



作者：秦曾昌、田达玮

Author: QIN Zengchang, TIAN Dawei

ISBN: 9787302613701

Publication Date: 2022/9/1

Page Count: 236

About the Book:

这是一本面向大众尤其是青少年的人工智能科普书籍，从介绍人工智能背后的逻辑、数学引入主题，接着用生动的语言将计算机和人工智能的诞生、算法科学、机器学习与大数据、计算机视觉、语音识别等有趣的知识融入本书，最后科普了人工智能在智能农业、智能医疗、自动驾驶等不同领域的应用。本书具有语言生动、图文并茂、贴近生活等特点，具体论述如上。本书的主要读者对象为中小學生，对人工智能感兴趣的零基础成年人也可以选择阅读本书，来对人工智能技术有一个基本的了解。

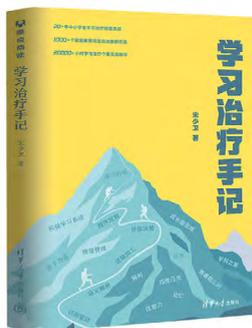
This is a popular science book aimed at the general public, especially teenagers. It introduces the topic by explaining the logic and mathematical concepts behind artificial intelligence and then employs engaging language to incorporate fascinating knowledge such as the birth of computers and AI, algorithm science, machine learning and big data, computer vision, and speech recognition. Finally, it explores AI applications in various fields like smart agriculture, intelligent healthcare, and autonomous driving. The book is characterized by vivid language, abundant illustrations, and real-life relevance. The details are as described above. The primary readers of this book are primary and secondary school students. Adults who have no prior knowledge but are interested can also choose this book to gain a basic understanding of AI technology.

About Author:

秦曾昌，北京航空航天大学自动化学院副教授，主要研究领域包括不确定性理论、机器学习、多媒体检索、机器视觉、自然语言处理、医疗影像与计算博弈。

Qin Zengchang is an associate professor at the School of Automation Science and Electrical Engineering, Beihang University. His main research areas include uncertainty theory, machine learning, multimedia retrieval, computer vision, natural language processing, medical imaging, and computational game theory.

学习治疗手记



Handbook on Study Therapy

作者：宋少卫

Author: SONG Shaowei

ISBN: 9787302585503

Publication Date: 2021/8/1

Page Count: 348

About the Book:

很多中小學生都暴露出來不能自主自律學習的很多問題，引起了家長的擔憂。在國家倡導“進一步減輕義務教育階段學生作業負擔和校外培訓負擔”的當下，孩子該如何高效的學習一直是家長們都非常關心的。《學習治療手記》結合現實生活中36個具體的案例，介紹了學習治療理論、分享作者從金牌家教到學習治療師二十餘年教育教學的經驗和心得、學習治療理論應用和案例分析等。深入淺出介紹學習治療理論和實踐應用，讓每一個讀者都能看懂、理解、應用學習治療。教師、家長、對學習治療感興趣的學生，均可通過本書，改善學習狀態。

Many primary and secondary school students are struggling with voluntary and disciplined learning, which has raised concerns among parents. In the current context of the national initiative to “further reduce the homework and extracurricular training burdens for students in the compulsory education stage,” how children can learn effectively has become a major concern for parents. Handbook on Study Therapy combines 36 real-life cases to introduce the study therapy theory and share the author’s experience and insights from over twenty years of teaching experience as a gold-medal private tutor and study therapist, the application of the study therapy theory, and case studies. The book provides a clear and easy-to-understand introduction to study therapy theory and its applications, allowing every reader to understand, comprehend, and apply study therapy. Teachers, parents, and students interested in study therapy can use this book to improve their study habits.

About Author:

宋少衛，青少年學習心理專家，本科畢業於清華大學自動化系，後進入中國人民大學心理研究所師從俞國良教授，長期從事學習困難專業研究，進而提出學習治療理論。

Song Shaowei is an expert in adolescent learning psychology. He graduated with a Bachelor’s degree from the Department of Automation, Tsinghua University, and later joined the Institute of Psychology at the Renmin University of China to study under the guidance of Professor Yu Guoliang. He has long been engaged in the research of learning difficulties and proposed the theory of study therapy.

Arduino图形化编程轻松学



Arduino Graphical Programming Made Easy

作者：冯磊、[俄] Dmitry Maslov、蒋炜波

Author: FENG Lei, [Russian] Dmitry Maslov, JIANG Weibo

ISBN: 9787302602668

Publication Date: 2022/4/1 Page Count: 330

About the Book:

本书基于 Grove Arduino 入门套件、几个扩展模块，以及图形化编程软件 Codecraft，通过 28 个有趣项目带读者入门 Arduino 开源硬件，内容组织：01 章（第 1~14 课），每课通过一个或多个任务，带领读者逐步学习 Grove Arduino 入门套件中 10 个最常用的电子模块，并生动地讲述相关背景知识—LED 灯、蜂鸣器、OLED 显示屏等；02 章（第 15~19 课），首先介绍产品原型的设计启蒙，然后制作 4 个较为复杂的项目，如智能加湿器、遥控电风扇、自动报警器等；03 章邀请了 5 位资深创客分享他们制作项目的经历和感悟。

Based on the Grove Arduino Beginner Kit, several expansion modules, and the graphical programming software Codecraft, this book guides readers through 28 interesting projects to get started with Arduino open-source hardware. The content is organized as follows: Chapter 01 (Lessons 1-14) introduces readers to the ten most frequently used electronic modules in the Grove Arduino Beginner Kit through one or more tasks every lesson, vividly explaining related background knowledge such as LED lights, buzzers, and OLED displays. Chapter 02 (Lessons 15-19) first introduces the design inspiration of product prototypes, then creates four relatively complex projects, such as a smart humidifier, remote-controlled fan, and automatic alarm. Chapter 03 invites five experienced makers to share their experiences and insights in making projects.

About Author:

冯磊，70后，做过游戏网站、游戏杂志、产品经理、游戏策划与运营。

[俄]Dmitry Maslov，应用机器学习和机器人方面的专业人士，精通四种语言。

蒋炜波清华大学附属中学物理学科高级教师，获全国中学物理青年教师教学大赛一等奖。

Feng Lei, born in the 1970s, has worked on game websites and gaming magazines and has experience as a product manager, game planner, and operator.

Dmitry Maslov is an Russian expert in applied machine learning and robotics, Dmitry Maslov is proficient in four languages.

Jiang Weibo is a senior physics teacher at Tsinghua University High School. He won the First Prize of the National Secondary School Physics Young Teacher Competition.

写给青少年的人工智能（Python版）



Artificial Intelligence Written for Teenagers (Python Edition)

作者：陈璟、王萌、梁婷

Author: CHENG Jing, WANG Meng, LIANG Ting

ISBN: 9787302626817

Publication Date: 2023/3/1

Page Count: 144

About the Book:

本书以通俗易懂的方式介绍人工智能的基础知识及其应用，采用案例的形式讲解，方便读者轻松阅读。全书共5章，首先介绍人工智能的基础知识，然后从文本、图像、语音三方面介绍自然语言处理、图像处理、语音识别等人工智能研究领域，最后通过实战案例让读者全面了解人工智能的应用。本书适合有志于了解人工智能基础知识及应用的初、高中学生，也可以作为人工智能初学爱好者的学习资料。

The book introduces the basic knowledge and applications of artificial intelligence in a simple and easy-to-understand way, using case studies to make it easier for readers to read. The book consists of five chapters, starting with the introduction of basic knowledge about AI. It then covers natural language processing, image processing, speech recognition, and other AI research fields from the aspects of texts, images, and speech. Finally, practical cases are provided for readers to gain a comprehensive understanding of AI applications. This book is suitable for middle and high school students hoping to understand the basics and applications of AI. It can also serve as study material for beginners interested in AI.

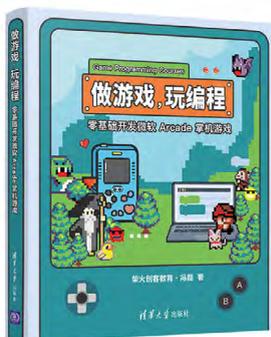
About Author:

陈璟，博士，1977年6月生，现任江南大学人工智能与计算机学院副教授。

Born in June 1977, Dr. Chen Jing is currently an associate professor at the School of Artificial Intelligence and Computer Science at Jiangnan University.

做游戏，玩编程——零基础开发微软Arcade掌机游戏

Game Programming Courses – A Beginner's Guide on Developing Microsoft Arcade Handled Games



作者：柴火创客教育 冯磊

Author: Chaihuo Makers, FENG Lei

ISBN: 9787302572978

Publication Date: 2021/1/1

Page Count: 346

About the Book:

本书包括两篇：灰袍魔法师进修篇（第 01 ~ 05 章）介绍游戏创作的“基本功”，比如如何创建、控制角色，如何实现游戏中的“食物”与“敌人”，如何设置得分、倒计时，如何发射子弹，如何快速创建能玩的游戏原型，等等；白袍魔法师进修篇（第 06 ~ 10 章）则带读者学习构建较复杂的游戏，比如如何在游戏中添加动画，如何实现“多人游戏”，如何编辑地图，如何制作多地图关卡，等等。随着游戏创作知识的展开，读者将学到变量、语句、循环、嵌套循环、函数、数组等编程的核心概念，以及编程的设计思维和方法。本书可以作为游戏创作或者编程学习的入门书，也适合作为培训机构、家庭编程教育的教材。

The book consists of two parts: Advancement of the Gray Robe Magician (Chapters 01-05) introduces the “basic skills” of game creation, such as how to create and control characters, set “food” and “enemies” in games, set up scoring and countdowns, launch bullets, and quickly create playable game prototypes. The Advancement of White Robe Magician (Chapters 06-10) guides readers to build complex games, including how to add animations in games, enable “multiplayer games,” edit maps, and create multi-map levels. As the knowledge of game creation unfolds, readers will learn core programming concepts such as variables, statements, loops, nested loops, functions, and arrays, as well as programming design ideas and methods.

The book can serve as an introductory book for game creation or programming learning and is also suitable as teaching material for training institutions and family programming education.

About Author:

柴火创客教育，创客教育服务商，集创客教育内容研发、师资培训、教育资源整合、校园创客空间建设于一体。课程内容涵盖传统手工、电子硬件、编程软件、3D打印工具等。已经服务了1000所中国学校，覆盖的学生达20万人次。

Chaihuo Makers is a service provider of maker education integrating content development, teacher training, educational resource integration, and the establishment of campus maker spaces. They offer courses covering traditional crafts, electronic hardware, programming software, and 3D printing tools. They have served over 1,000 schools in China, totaling around 200,000 students.

这是我们的北京!

This is Beijing!



作者: 肖琨 著、文俊 绘

Author: Text by XIAO Kun, Illustration by WEN Jun

ISBN: 9787302618348

Publication Date: 2023/4/1

Page Count: 72

About the Book:

本书是“这是我们的城”青少年城市人文读本系列其中一册。作者从代表性的风物、建筑、生活场景入手,以简洁明快的语言、清新活泼的插图,介绍北京的历史文化、城市特征、代表建筑、传统和都市生活,对街道、博物馆、公园、建筑、车辆、居民生活等北京城的样貌展开细致描绘。包含城市全景、北京中轴线、胡同四季等三个大折页。在主文叙述外,埋藏知识点,在大插画中,埋藏局部故事,让家长孩子在不断发现中阅读。

This book is a volume in the youth urban humanities reader series, “This Is Our City.” Starting with representative landscapes, architecture, and life scenes, the authors use lucid and sprightly language and fresh and lively illustrations to introduce Beijing’s history and culture, urban characteristics, representative buildings, traditions, and urban life, providing detailed descriptions of the outlook of Beijing’s streets, museums, parks, buildings, vehicles, and residents. It contains three large fold-out pages showcasing the city panorama, Beijing’s central axis, and the changing seasons of the hutongs. In addition to the main text, the book embeds knowledge points and hidden stories in the large illustrations so that parents and children can read while making discoveries.

About Author:

肖琨, 作家、创意人、资深编辑。深耕艺术设计领域十余年,曾任职香港三联出版社北京公司。

Xiao Kun is a writer, creator, and senior editor. He has been committed to art and design for over a decade and previously worked at the Beijing company of Joint Publishing HK.

文俊, 插画师、平面设计师、摄影师。曾长期担任广告公司创意总监。

Wen Jun is an illustrator, graphic designer, and photographer. He served as the Creative Director at an advertising company for an extended period.

童趣二十四节气

24 Solar Terms in Children's Eyes
(4 volumes)

作者: 吴冠英

Author: (Illustration) WU Guanying

ISBN: 9787302607847

Publication Date: 2022/5/1

Page Count: 0

About the Book:

二十四节气是世界上极富有诗画意境的历法，也是中华民族传统文化的重要组成部分，是祖先留给我们的中华瑰宝。全书分春、夏、秋、冬4册，包含了吴冠英先生原创的5套珍贵的二十四节气儿童画，画作淳美，充满童趣，让人爱不释手。同时摘引古代诗词一二，诗画相配，更呈现出二十四节气的精妙意境。本书可作为小朋友了解传统文化、学习绘画临摹的推荐读物，也非常适合热爱传统文化和绘画艺术的大小读者珍藏、品读。

A series that tells the beauty and romance of the seasonal changes through touching paintings

Latest work of the designer of FUWA, the mascots of the 2008 Summer Olympics

This series exclusively collects original paintings of the 24 solar terms by Wu Guanying, a famous contemporary Chinese illustrator, comic strip artist, and professor at the Academy of Fine Arts and Design at Tsinghua University. The books are of high artistic values. Children can learn to paint, trace, and copy or create their own works from the 120 beautiful paintings. The illustrations of the 24 solar terms are vivid and close-to-life masterpieces full of childlike innocence. Young Readers would be delighted by the genial warmth of the picture books. Adults would enjoy the reading experience as it awakens their naiveté and playfulness at heart. The book also presents the most essential information about the 24 solar terms, such as the relevant dates, climate, agricultural activities, folklore, and poetry. Moreover, the texts are marked with Pinyin, making it a good choice not only for readers interested in arts and Chinese culture, but for anyone who desires to study Chinese characters. Readers can also access the namesake short cartoon clips via QR codes printed on the pages.

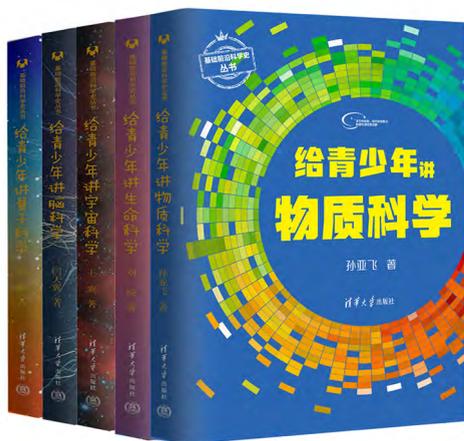
About Author:

吴冠英，清华大学美术学院信息艺术设计系教授、博士生导师，北京2008年奥运会吉祥物“福娃”设计者之一。

WU Guanying was a renowned Chinese painter. He used to teach at the Academy of Fine Arts and Design in Tsinghua University (Beijing, China). He also designed the Fuwa, mascots of the 2008 Summer Olympics.

基础前沿科学史丛书

History of Basic Frontier Sciences Series



ISBN: 9787302619789 / 9787302619444
/ 9787302619437 / 9787302620044 /
9787302621409

Publication Date: 2022/12/1

Page Count: 0

About the Book:

本丛书向青少年普及物质科学、生命科学、宇宙科学、脑科学、量子科学等前沿科学领域的知识，以介绍科学史为主，从各领域重要的发现入手，讲述科学家是如何发现和建立科学理论，背后有哪些故事，以及这些研究成果的意义和影响。在阅读过程中，青少年一方面能对相应的学科建立基本了解，掌握通识概念，另一方面也能体悟科学精神，树立投身科学事业的宏伟目标。

This series is aimed at popularizing knowledge in frontier scientific fields such as material science, life science, cosmology, brain science, and quantum science among teenagers. The series primarily introduces the history of science. Starting from significant discoveries in various fields, it narrates how scientists have discovered and established scientific theories, the stories behind, and the significance and impact of these research achievements. Throughout the reading process, teenagers can establish a basic understanding of the corresponding disciplines, grasp general concepts, and also comprehend the spirit of science while setting grand goals for devoting themselves to science.

本系列丛书还包括:

《给青少年讲量子科学》(高鹏)《给青少年讲宇宙科学》(王爽)《给青少年讲生命科学》(刘锐)《给青少年讲脑科学》(闫天翼)《给青少年讲物质科学》(孙亚飞)

The series include:

This book series includes Quantum Science for Teenagers (Gao Peng), Cosmo Science for Teenagers (Wang Shuang), Life Science for Teenagers (Liu Rui), Brain Science for Teenagers (Yan Tianyi), and Material Sciences for Teenagers (Sun Yafei).

“人工智能教育”丛书

Artificial Intelligence Education



ISBN: 9787302627241 / 9787302627258

/ 9787302627265 / 9787302627272 /

9787302627616 / 9787302627623

Publication Date: 2023/5/1

Page Count: 0

About the Book:

本丛书共六册，分别从学生身边的生活入手，衣、食、住、行中的人工智能应用，引导学生认识与了解身边的人工智能世界，学习并实践人工智能技术，由浅入深，正确理解人工智能的概念，并最终达到人工智能的培养目标：1. 人工智能意识：提升对人工智能技术的敏感度与理解力；2. 技术应用能力：实践与探究人工智能技术的应用价值；3. 实践创新思维：激发人工智能技术的实践创新思维；4. 智能社会责任：树立适应智能社会发展的责任意识。

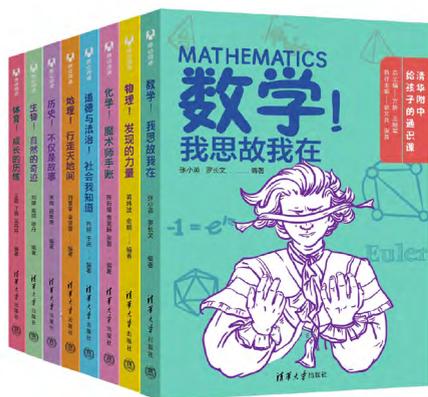
读者对象为小学一至六年级在校学生、教师、广大家长朋友，及人工智能教育研究者。

Relying on the important achievements of the "National Youth STEAM Education System Construction and Application Practice Research" project at Beijing Normal University, we organized frontline teachers from schools such as Beijing Normal University, High School Affiliated to Renmin University of China, Ocean University of China, and Shandong Province Pre-Primary Education Center to compile "AI Education" enlightenment books (six volumes in total) suitable for primary school students learning based on the actual teaching situation. Each volume has a different theme: Volume 1 is about approaching AI, Volume 2 is about accompanying me with AI, Volume 3 is about AI in Life, Volume 4 is about AI service, Volume 5 is about AI and society, and Volume 6 is about AI and big data.

This set of books is devoted to promoting the popularization of AI education, focusing on the cultivation of primary students' rational thinking, critical questioning spirit, and research and innovation ability.

“清华附中给孩子的通识课”丛书

"Tsinghua University High School General Studies for Children" Series



ISBN: 9787302621393 / 9787302621485 /
9787302621348 / 9787302620235
Publication Date: 2022/11/1
Page Count: 0

About the Book:

“清华大学给孩子的通识课”系列丛书以初中课本的知识为框架，以百科问答为主要形式，用小学生能接受的语言，帮助4~8 年级学生初步搭建初中的学科体系。丛书包括数学、物理、化学、地理、历史、生物、道德与法治、体育8个分册。每个分册约有50 篇文章，以环环相扣的写作方式展开，分别对应课内一个核心知识点。该丛书第一辑（前4本）出版后，受到市场广泛关注，半年销售累计达到10万套。

With the knowledge introduced in middle school textbooks as the framework, the “Tsinghua University High School General Studies for Children” Series is presented primarily in the form of encyclopedic Q&A, helping students in grades four to eight to establish a preliminary foundation for middle school subjects using language that primary school students can understand. This series includes eight volumes of Mathematics, Physics, Chemistry, Geography, History, Biology, Ethics and Rule of Law, and Physical Education. Each volume consists of around 50 articles, with topics interconnected with each other, separately corresponding to a core knowledge point in the school curriculum.

Since the publication of the first set of four books, this series has garnered extensive attention from the market, selling 100,000 sets in six months.

物理如此简单：力学篇



Physics Made Simple: Mechanics

作者：张君可、王超、宋艾晨

Author: ZHANG Junke, WANG Chao, SONG Aichen

ISBN: 9787302634447

Publication Date: 2023/7/1

Page Count: 192

About the Book:

本书是适合全学段中学生进行严肃阅读的物理学科普读物。全书以生活中“简单的直线运动”开篇，引领你科学评判龟兔赛跑这一经典问题；以“无处不在的力”引领你认识一个真实的、充满相互作用的世界。在书中遨游，你会理解“坐地日行八万里”的真谛，你会参透足球运动员一脚踢出的“美丽香蕉球”中蕴藏的空气动力学原理。你所关注的众多科学问题，都会在阅读本书的过程中得到一些有意义的启示。

This book is a popular science book about physics suitable for the serious reading of secondary school students in all grades. The book starts with “simple linear motion” in daily life, guiding you to scientifically evaluate the classic problem of the tortoise and the hare race. It then uses “ubiquitous forces” to help you understand a real-world filled with interactions. As you journey through the book, you’ll comprehend the essence of “sitting on the Earth and traveling eighty thousand li a day” and decipher the aerodynamics behind a football player’s “sensational screw shot.” You will gain meaningful insights into the numerous scientific questions you are concerned about through reading this book.

About Author:

张君可，北京市特级教师，中学物理正高级教师，北京市高中物理核心组成员。

Zhang Junke is a Beijing Special Grade Teacher, a senior high school physics teacher, and a core member of the Beijing High School Physics Group.

王超，中国科学院物理学博士。

Wang Chao received his Ph.D. in Physics from the Chinese Academy of Sciences.

宋艾晨，北京市朝阳区基础教育综合评价能力建设研究团队数据分析组成员。

Song Aichen is a member of the Data Analysis Team of the Comprehensive Evaluation Capacity Building Research Team for Basic Education in Chaoyang District, Beijing.

什么是量子力学



What is Quantum Mechanics

作者: 长尾君

Author: Changweijun

ISBN: 9787302625834

Publication Date: 2023/4/1

Page Count: 172

About the Book:

本书用一种不同以往量子力学科普的全新方式, 将各零散不成体系知识点用更自然更优雅更易理解的方式串联且娓娓道来, 构筑了一套知识框架。澄清了大众对量子力学的一些错误认知, 让读者站在更高的高度和不同视角来认识量子力学。从零开始帮助你建立起量子力学的分析框架, 让中学生也能从量子视角看问题。你就会发现那些奇怪的量子现象原来都是那么的自然, 原来你也可以懂量子力学。

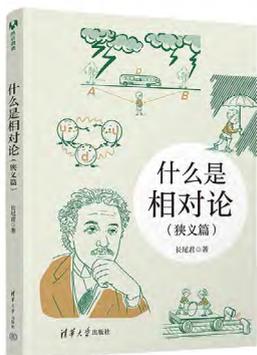
This book uses a new approach distinct from conventional quantum mechanics popularizations, connecting and explaining fragmented and disorganized knowledge points in a more natural, elegant, and easily comprehensible way, constructing a coherent knowledge framework. It dispels some of the public's common misconceptions about quantum mechanics and allows readers to understand quantum mechanics from a higher level and different angle. It helps you establish an analytical framework for quantum mechanics from scratch, enabling secondary school students to view problems from a quantum perspective. You will find that those strange quantum phenomena are actually quite natural, and you, too, can understand quantum mechanics.

About Author:

长尾君, 原名张文, 2018年5月开始以“长尾科技”之名在公众号上发表相对论的科普文章。重点关注物理、数学、哲学以及中小学生的科学教育, 坚持以极为通俗的语言和缜密的逻辑把复杂的科学问题说清楚。

Changweijun, originally named Zhang Wen, began publishing popular science articles on the WeChat official account “Changwei Technology” in May 2018. He focuses on physics, mathematics, philosophy, and science education for primary and secondary students. He perseveres in explaining complex scientific issues using simple language and rigorous logic.

什么是相对论（狭义篇）



What is Special Relativity

作者：长尾君

Author: Changweijun

ISBN: 9787302625940

Publication Date: 2023/3/1

Page Count: 296

About the Book:

爱因斯坦到底是如何创立相对论的？以太跟相对论到底有什么关系？迈克尔逊-莫雷实验在相对论的创立过程中到底扮演了什么角色？光速不变和相对性原理为什么难以协调？尺缩、钟慢只是我们的视觉效应吗？质能方程 $E=mc^2$ 只在核反应里才有效吗，我们又该如何正确地理解质能方程？作者会站在初学者的角度，用平实的语言和缜密的逻辑带领大家进入爱因斯坦的精神世界，让中学生也能在相对论的世界里尽情地遨游。

How exactly did Einstein establish the theory of relativity? What is the relationship between ether and relativity? What role did the Michelson-Morley experiment play in the process of establishing relativity? Why is it hard to reconcile the principle of constant speed of light and the principle of relativity? Are length contraction and time dilation merely visual effects? Is the mass-energy equation $E=mc^2$ only valid in nuclear reactions, and how should we correctly understand this equation? The author approaches these questions from the perspective of beginners, using simple language and rigorous logic to guide readers into Einstein's intellectual world, allowing secondary school students to freely explore the world of relativity.

About Author:

长尾君，原名张文，2018年5月开始以“长尾科技”之名在公众号上发表相对论的科普文章。重点关注物理、数学、哲学以及中小学生的科学教育，坚持以极为通俗的语言和缜密的逻辑把复杂的科学问题说清楚。

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轻松玩转Python少儿编程



What Are Maxwell's Equations

作者：长尾君

Author: Changweijun

ISBN: 9787302639251

Publication Date: 2023/7/1

Page Count: 184

About the Book:

麦克斯韦方程组以一种近乎完美的方式统一了电和磁，并预言光就是一种电磁波，这是物理学家在统一之路上的巨大进步。很多人都知道麦克斯韦方程组，知道它极尽优美，但是能看懂这组方程的人却不多，因为它需要用到微积分，并不像许多方程那样简单直观。因此，《什么是麦克斯韦方程组》会依然延续「长尾科普系列」的风格，继续用通俗的语言和缜密的逻辑将麦克斯韦方程组的前前后后都讲清楚，让不懂微积分的中小学生也能轻松读懂这组伟大的方程。

Maxwell's equations unified electricity and magnetism in an almost perfect way and predicted that light is an electromagnetic wave. This was a tremendous advancement for physicists on the path toward unification. Many people are aware of Maxwell's equations and their beauty, but only a few can truly understand these equations because they require calculus and are less straightforward than many other equations. Therefore, *What Are Maxwell's Equations* will continue in the style of the "Changweijun Popular Science Series," using simple language and rigorous logic to thoroughly explain the ins and outs of Maxwell's equations, making this great set of equations easily comprehensible even to secondary and primary school students without calculus knowledge.

About Author:

长尾君，原名张文，2018年5月开始以“长尾科技”之名在公众号上发表相对论的科普文章。重点关注物理、数学、哲学以及中小学生的科学教育，坚持以极为通俗的语言和缜密的逻辑把复杂的科学问题说清楚。

Changweijun, originally named Zhang Wen, began publishing popular science articles on the WeChat official account "Changwei Technology" in May 2018. He focuses on physics, mathematics, philosophy, and science education for primary and secondary students. He perseveres in explaining complex scientific issues using simple language and rigorous logic.

写给孩子的中国古代音乐史 上下册



The History of Ancient Chinese Music for Children, Volume 1 and Volume 2

作者: 万丽

Author: WAN Li

ISBN: 9787302624547 | 9787302630791

Publication Date: 2023/5/1

Page Count: 0

About the Book:

从远古到南北朝时期,关于音乐的一切,歌舞、乐器、乐人、曲谱、音乐的功能……
从零基础开始了解中国博大精深的音乐文化。逻辑性和趣味性相结合,理论性和实用性相结合,学术性和鉴赏性相结合。
带领大家一起穿越聆听中国古代的音乐和故事。

The book talks about everything about music from the ancient to the Northern and Southern dynasties, encompassing singing, dancing, musical instruments, musicians, musical scores, and the functions of music...

Readers can understand the profound and extensive music culture of China from scratch. The book is an integration of logic and enjoyment, theory and practicality, as well as academic reading and aesthetic reading.

It guides everyone on a journey to listen to the music and stories of ancient China.

About Author:

原任教于中国音乐学院教育学院,曾任中国音乐学院钢琴考级评委。

Formerly taught at the School of Education, China Conservatory of Music, and served as a judge for piano grading tests at the China Conservatory of Music.

中华经典教育三十年



Thirty Years of Chinese Classical Education

作者：祝安顺

Author: ZHU Anshun

ISBN: 9787302625247

Publication Date: 2023/3/1

Page Count: 332

About the Book:

本书是一部并不多见的、从中华经典教育内涵、近百年经典教育发展和经典课程体系构建等三个方面探讨中华经典教育的传承与发展的理论结合实践的专著。本书在总结中华经典教育的历史经验、反思时代思潮和分析经典教育实践案例的基础上，致力于探讨经典课程体系的构建，促进中华经典教育的发展。特别值得一提的是，书中还谈到相关国家和地区在社会经典教育上的做法与成功案例，包含诸多具体生动的例子，同时对如何避免将经典教育变成流于“大道理”的唱高调这个问题，提出了可执行的建设性意见。

This book is a rare monograph exploring the theories of the inheritance and development of Chinese classical education in combination with practical applications from three aspects of the connotation of Chinese classical education, the development of classical education in the past century, and the construction of the classical curriculum system. Based on a summary of historical experiences in Chinese classical education, reflections on the trends of the times, and analysis of practical cases in classical education, the book strives to explore the construction of classical curriculum systems to promote the development of Chinese classical education. Notably, the book also discusses the practices and successful cases of related countries and regions in social classical education, encompassing numerous vivid examples. In the meantime, it provides feasible and constructive suggestions on how to avoid turning classical education into mere high-profile rhetoric about abstract principles.

About Author:

祝安顺，中国教育学会传统文化教育分会副理事长。致力于中华优秀传统文化课程化、常识化、体验化研究。

Zhu Anshun is the Vice Director of the Traditional Culture Education Branch of the Chinese Society of Education. He is dedicated to the research of how to include outstanding traditional Chinese culture in the curriculums, popularize it as common knowledge, and enable students to experience it.

清华大学出版社



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