

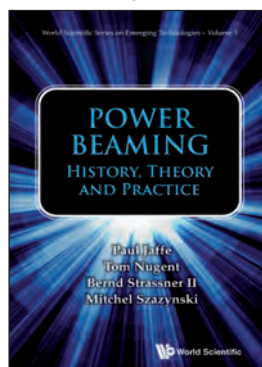
2025

ELECTRICAL & ELECTRONIC ENGINEERING



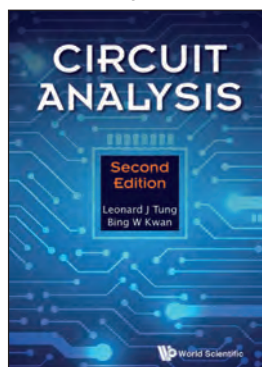
Highlights

page 4



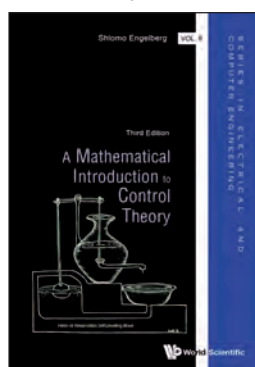
by **Paul Jaffe** (US Naval Research Laboratory, USA), **Tom Nugent** (PowerLight Technologies, USA), **Bernd Strassner II** (Massive Light LLC, USA) & **Mitchel Szazynski** (Virtus Solis Technologies, USA)

page 5



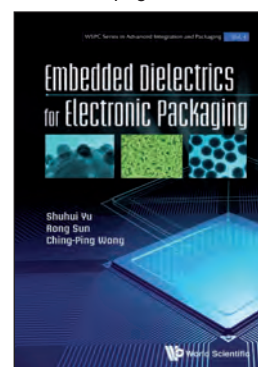
by **Leonard J Tung & Bing W Kwan** (Florida State University, USA)

page 5



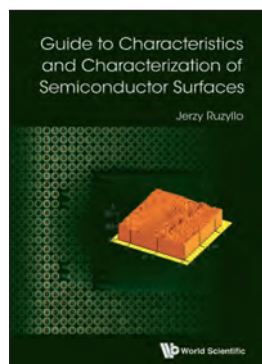
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page 5



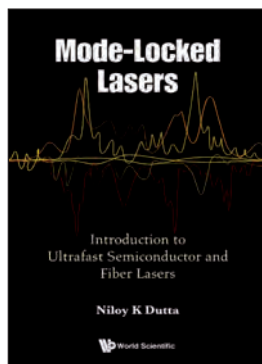
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page 5



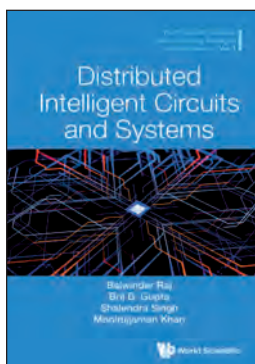
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page 6



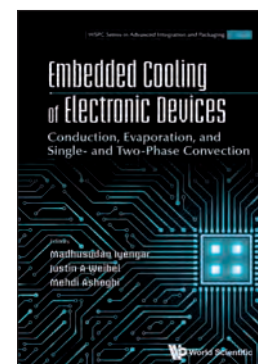
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page 6



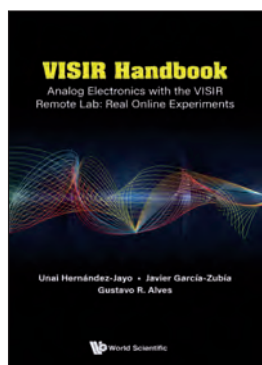
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page 6



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page 6



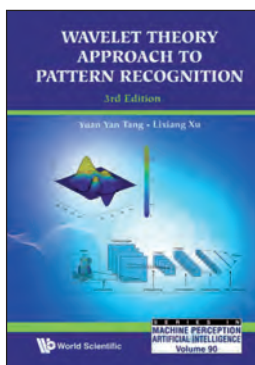
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page 6



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page 7



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page 7



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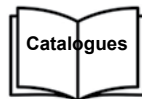
We would be delighted to hear from you if you have a book idea in mind. Contact any of our worldwide offices or email us at editor@worldscientific.com for more information. Alternatively, you can visit our website at www.worldscientific.com



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7	Energy and the Environment
7	Mathematical Applications
8	General
11-14	Journals
15	Bestselling Backlist for Engineering
16	Proceedings
17	Title Index

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Circuits, Electronics and Semiconductors

PRECISE ENERGY

A Missing View on Batteries

edited by **Kai Peter Birke** (University of Stuttgart, Germany), **Sabri Baazouz** (Fraunhofer Institute for Manufacturing Engineering and Automation, Germany) & **Julian Grimm** (Fraunhofer Institute for Manufacturing Engineering and Automation, Germany)

Achievable energy densities dominate important future research activities on battery technology. This book deduces in detail the future options for energy density enhancement of rechargeable battery cells and complete batteries. It connects rechargeability to energy density limits and gives a detailed argumentation on how and when battery energy densities will achieve their inherent limits.

Readership: Researchers, postgraduate and advanced undergraduate students, industry professionals, specialising in battery cell R&D and manufacturing, as well as governments and civil servants who wish to understand the topic.

250pp	Mar 2025	
978-981-12-8204-1	US\$88	£80
978-981-12-8205-8(ebook)	US\$141	£130

FUNDAMENTALS OF ELECTRIC CIRCUITS AND TRANSMISSION LINES

by **Hiroshi Toki** (Osaka University, Japan) & **Masayuki Abe** (Osaka University, Japan)

This unique compendium consists of two parts - electric circuit and fundamentals of transmission theory. The first part contains all the necessary materials to understand electric circuit and emphasizes on numerical method and calculation using Python program. The crucial second part starts with Maxwell equations to treat the electromagnetic phenomena of conducting materials and derives the Heaviside equation for transmission theory in distributed-parameter circuit. Boundary condition of the lumped and distributed circuits are introduced. The boundary condition enables readers to understand the source of electric noise from circuit.

Readership: This useful reference text will benefit Researchers, professionals, academics, undergraduate and graduate students in circuits and systems.

250pp	Nov 2024	
978-981-126-542-6	US\$88	£80
978-981-126-543-3(ebook)	US\$141	£130

WSPC Series in Advanced Integration and Packaging

CO-DESIGN AND MODELLING FOR ADVANCED INTEGRATION AND PACKAGING

Manufacturing and Reliability

by **Christopher Bailey** (Arizona State University, USA), **Stoyan Stoyanov** (University of Greenwich, UK) & **Hua Lu** (University of Greenwich, UK)

- Multi-domain modeling for advanced packaging and manufacturing technologies
- Demonstration of how modeling manufacturing/assembly processes can be used to inform subsequent modeling/design analysis for reliability
- Written by world leading experts in multi-physics/domain modeling, who have worked for many years in this field both on government funded research projects and consultancy projects with industry
- Design and modelling challenges and solutions for implementing advanced packaging and integration technologies in high reliability applications

Readership: Graduate students, researchers professionals, and electrical and mechanical engineers in advanced packaging of micro and power electronic systems, design and modelling community.

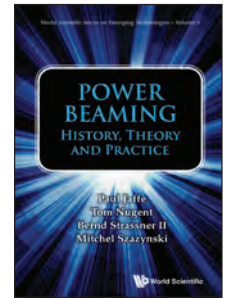
300pp	May 2025	
978-981-4740-20-3	US\$138	£125
978-981-4740-21-0(ebook)	US\$221	£205

World Scientific Series on Emerging Technologies: Avram Bar-Cohen Memorial Series - Vol 5

POWER BEAMING

History, Theory and Practice

by **Paul Jaffe** (US Naval Research Laboratory, USA), **Tom Nugent** (PowerLight Technologies, USA), **Bernd Strassner II** (Massive Light LLC, USA) & **Mitchel Szazynski** (Virtus Solis Technologies, USA)



This comprehensive compendium provides the foundation needed for researchers, technology developers, and end users to understand the promise and challenges for power beaming. By establishing a common nomenclature and conceptual approach to the analysis and assessment of power beaming systems, this unique reference text provides a true status of advancements in the field, and lays the groundwork for fruitful future research and applications.

Readership: Professionals, researchers, academics and graduate students in electrical & electronic engineering.

320pp	Jun 2024	
978-981-124-310-3	US\$128	£120
978-981-124-311-0(ebook)	US\$205	£190

Advanced Series in Electrical and Computer Engineering - Vol 19

INTRODUCTION TO ELECTRONIC CIRCUITS

A Design-Oriented Approach

by **Jose Silva-Martinez** (Texas A & M University, USA) & **Marvin Onabajo** (Northeastern University, USA)

This book provides a compact and practical presentation of microelectronics circuits for a one-semester introductory course. Contrary to textbooks that are written for comprehensive two-semester electronics courses, the focus of this book is on the basic concepts and immediate discussion of application examples to instill more interest. The theoretical concepts are introduced by explaining the methods to analyze elementary electronic circuits with design considerations, design procedures, and simulation examples. With this approach, students are prepared early to design and measure simple electronic circuits in the laboratory.

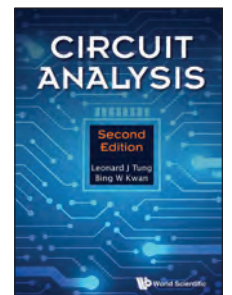
Readership: Researchers, academics, professionals, graduate and undergraduate students in electrical & electronic engineering and computer engineering.

350pp	Oct 2024	
978-981-4678-52-0(pbk)	US\$58	£55
978-981-4656-88-7	US\$120	£110

CIRCUIT ANALYSIS

2nd Edition

by **Leonard J Tung** & **Bing W Kwan** (Florida State University, USA)



This unique compendium gives a complete, concise and rigorous treatment of virtually all the essential topics typically included in most textbooks for undergraduate students majoring in electrical and computer engineering. These topics include basic circuit elements, fundamental circuit laws, theorems and efficient analysis techniques to solve a large class of linear circuits energized by a wide scope of electrical sources. The distinctive solution techniques are: (1) analyzing electric networks using basic algebraic graph theory; (2) applying state-variable method to transient RLC circuits; and (3) applying Fourier transform to circuits energized by arbitrary sources. The concise problem sets are highly relevant to the key concepts discussed pedagogically.

Readership: Undergraduates in electrical & electronic engineering and computer engineering.

300pp	Sep 2024	
978-981-3277-15-1	US\$78	£70
978-981-3277-16-8(ebook)	US\$125	£115

Series in Electrical and Computer Engineering - Vol 8

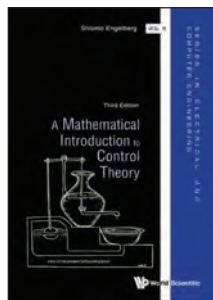
A MATHEMATICAL INTRODUCTION TO CONTROL THEORY

3rd Edition

by **Shlomo Engelberg** (*Jerusalem College of Technology, Israel*)

Review of the 2nd Edition:

"The book is an excellent introduction to classical control theory, based on frequency domain approach, modern control theory based on time domain approach, and nonlinear control and control of hybrid systems. The use of MATLAB will be beneficial to the students, undergraduate and graduate level. The readers are expected to know complex variable theory, differential equations and elementary modern algebra for using this book. It will serve elements of control theory, to both mathematicians and engineers, in a very systematic, rigorous manner." **Zentralblatt MATH**



The 3rd edition strikes a nice balance between mathematical rigor and engineering oriented applications, helping students to understand the mathematical and engineering aspects of control theory.

The book makes effective use of the tools provided by MATLAB®(and includes material about using the tools provided by the Python®programming language) in the design and analysis of control systems without allowing the computer-based tools to substitute for knowledge of control theory. The examples in the text are carefully designed to develop the student's intuition — in both mathematics and engineering. With over 90 solved homework problems and about 200 figures, this invaluable title will benefit junior and senior level university students in engineering.

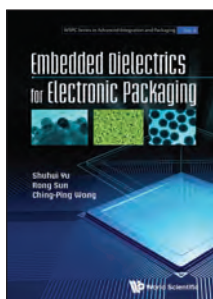
Readership: Professionals, academics, researchers and graduate students in electrical engineering, computer engineering, mechanical engineering and aeronautical engineering.

450pp	May 2024	
978-1-80061-554-0	US\$108	£100
978-1-80061-555-7(ebook)	US\$173	£160

WSPC Series in Advanced Integration and Packaging

EMBEDDED DIELECTRICS FOR ELECTRONIC PACKAGING

by **Shuhui Yu** (*Shenzhen Institutes of Advanced Technology, China & Chinese Academy of Sciences, China*), **Rong Sun** (*Shenzhen Institutes of Advanced Technology, China & Chinese Academy of Sciences, China*) & **Ching-Ping Wong** (*The Chinese University of Hong Kong, Hong Kong & Georgia Institute of Technology, USA*)



This book provides an overview of nanocomposite materials that can be used as embedded dielectric layer in high-density electronic packaging, for decoupling, filtering, energy storage or electrostatic discharge suppressing, etc. Some fundamental models used to analyze or predict the dielectric behavior of ceramic/polymer, conductor/polymer, and semiconductor/polymer composites are reviewed. This book also introduces design and synthesis of some novel hybrid filler particles, as well as graft modification on the polymer matrix to improve dielectric performance.

- One of the authors of this book is Prof. Ching Ping WONG, a world-renowned scholar in electronic engineering and a member of the US National Academy of Engineering
- This book for the first time introduces the design of the synthesizing methods of ceramic-metal hybrid particles used as dielectric filler in the polymer matrix
- Focuses on the dielectric composites for embedded capacitor applications, instead of covering broad contents

Readership: Graduate students and researchers in electronic packaging, engineers dealing with reliability of microelectronics and computer systems, as well as short courses given at microelectronics / computer manufacturing companies and conferences.

300pp	May 2025	
978-981-4619-41-7	US\$138	£125
978-981-4619-42-4(ebook)	US\$221	£205

FLEXIBLE SENSORS

Materials, Devices and Applications

edited by **Guozhen Shen** (*Beijing Institute of Technology, China*) & **Yang Li** (*University of Jinan, China*)

This comprehensive volume systematically presents the research progress of flexible sensors in materials, devices, and applications. Contributed by renowned researchers, the compendium summarizes these high-density research works within the last decades and provides necessary sources of information for future research works on flexible sensors around the world.

Readership: Researchers, professionals, academics, undergraduate and graduate students in electrical & electronic engineering, materials engineering and microelectronics.

400pp	Nov 2024	
978-981-126-685-0	US\$138	£125
978-981-126-686-7(ebook)	US\$221	£205

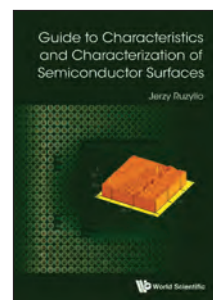
GUIDE TO CHARACTERISTICS AND CHARACTERIZATION OF SEMICONDUCTOR SURFACES

by **Jerzy Ruzyllo** (*Penn State University, USA*)

This comprehensive compendium explores aspects of semiconductor surface characteristics and characterization from the perspective of applied semiconductor device research and process development, rather than an in-depth coverage of surface science related issues. It provides guidance to the features of semiconductor surfaces affecting performance of the practical semiconductor devices, as well as selection of methods used to characterize those features.

Readership: Researchers, professionals, academics, and graduate students in electrical & electronic engineering, microelectronics and semiconductors.

220pp	Jan 2025	
978-981-125-481-9	US\$88	£80
978-981-125-482-6(ebook)	US\$141	£130



Selected Topics in Electronics and Systems - Vol 68

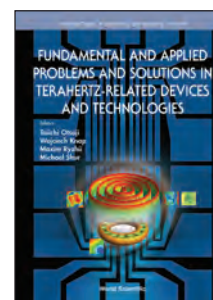
FUNDAMENTAL AND APPLIED PROBLEMS AND SOLUTIONS IN TERAHERTZ-RELATED DEVICES AND TECHNOLOGIES

edited by **Taiichi Otsuji** (*Tohoku University, Japan*), **Wojciech Knap** (*Polish Academy of Sciences, Poland*), **Maxim Ryzhii** (*University of Aizu, Japan*) & **Michael Shur** (*Rensselaer Polytechnic Institute, USA*)

The unique compendium provides a broad up-to-date perspective on THz science and technology — enabling technology for 6G communication, detection of biological and chemical hazardous agents, cancer detection, monitoring of industrial processes and products, and detection of mines and explosives.

Readership: Researchers, professionals, academics and graduate students in electrical and electronic engineering, nanotechnology and condensed matter physics.

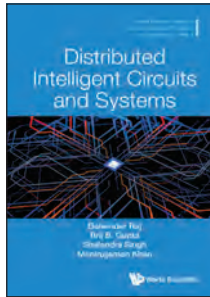
200pp	Aug 2024	
978-981-128-680-3	US\$88	£80
978-981-128-681-0(ebook)	US\$141	£130



World Scientific Series on Future Computing Paradigms and Applications - Vol 3

DISTRIBUTED INTELLIGENT CIRCUITS AND SYSTEMS

edited by **Balwinder Raj** (*Dr B R Ambedkar National Institute of Technology, India*), **Brij B Gupta** (*Asia University, Taiwan*), **Shalendra Singh** (*Pranveer Singh Institute of Technology, India*) & **Monirujjaman Khan** (*North South University, Bangladesh*)



The main objective of this book is to provide insights into recent advances in distributed intelligent circuits, systems and their applications. Distributed intelligence is the key enabler for innovations in machine-to-machine communications. The innovations are directed towards keeping existing algorithms as the base and developing new intelligent systems by employing smart technologies. Artificial intelligence (AI) and, more specifically, deep learning (DL) are receiving significant attention in assisting doctors in the detection of disease patterns without much human intervention. In agriculture, robots automate slow, repetitive and dull tasks, allowing farmers to focus more on improving overall production yields.

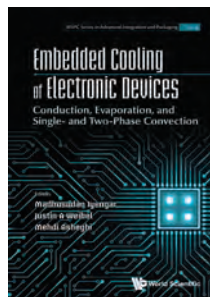
Readership: Graduate and post-graduate students, and researchers.

452pp	Apr 2024	
978-981-127-952-2	US\$158	£145
978-981-127-953-9(ebook)	US\$253	£230

WSPC Series in Advanced Integration and Packaging - Vol 8

EMBEDDED COOLING OF ELECTRONIC DEVICES

Conduction, Evaporation, and Single- and Two-Phase Convection edited by **Madhusudan Iyengar** (*Google Platforms, USA*), **Justin A Weibel** (*Purdue University, USA*) & **Mehdi Asheghi** (*Stanford University, USA*)



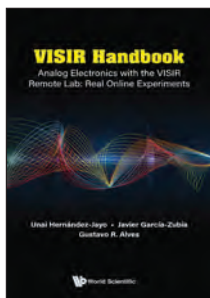
This book is a comprehensive guide on emerging cooling technologies for processors in microelectronics. It covers various topics such as chip-embedded two-phase cooling, monolithic microfluidic cooling, numerical modeling, and advances in materials engineering for conduction-limited direct contact cooling, with a goal to remedy high heat flux issues.

Readership: Electrical, packaging and thermal engineers, as well as Mechanical Engineering and Electronic Engineering MS and PhD students interested to understand and collaboratively tackle the complex and multidisciplinary field of microelectronics device (embedded) cooling.

480pp	Feb 2024	
978-981-127-793-1	US\$148	£135
978-981-127-937-9(ebook)	US\$237	£220

VISIR HANDBOOK

Analog Electronics with the VISIR Remote Lab: Real Online Experiments by **Unai Hernández-Jayo** (*University of Deusto, Spain*), **Javier García-Zubía** (*University of Deusto, Spain*) & **Gustavo R Alves** (*Polytechnic of Porto, Portugal*)



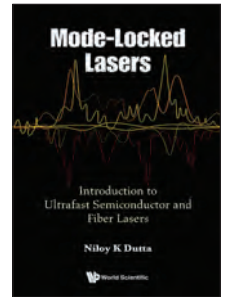
VISIR Handbook acts as a guide for users, demonstrating many of the real (remote) experiments that can be achieved and replicated with this laboratory. Most importantly, this book demonstrates how VISIR can be used as a learning tool for students. The approach of the book is designed on two levels, with an administrator/researcher approach and a teacher/student approach.

Readership: Undergraduate students of Engineering, graduate students and lecturers who would teach them. Student and educators at technological schools and secondary schools with degrees related to technology.

280pp	Apr 2024	
978-981-127-414-5	US\$108	£100
978-981-127-415-2(ebook)	US\$173	£160

MODE-LOCKED LASERS

Introduction to Ultrafast Semiconductor and Fiber Lasers by **Niloy K Dutta** (*University of Connecticut, USA*)



Mode-Locked Lasers: Introduction to Ultrafast Semiconductor and Fiber Lasers is self-contained and unified in presentation. It can be used as an advanced text by graduate students and by practicing engineers. It is also suitable for non-experts who wish to have an overview of mode-locked lasers and pulse generation. The explanations in the book are detailed enough to capture the interest of the curious reader and complete enough to provide the necessary background to explore the subject further.

Readership: Advanced undergraduate and graduate students, researchers, and practitioners in the fields of optical physics, electrical engineering, materials science and high-power laser systems.

350pp	May 2024	
978-981-129-016-9	US\$128	£120
978-981-129-017-6(ebook)	US\$205	£190

COMMUNICATIONS AND SIGNAL PROCESSING

5G COMMUNICATION SYSTEMS AND KEY TECHNOLOGIES

Opportunities and Challenges by **Chuanfu Zhang**

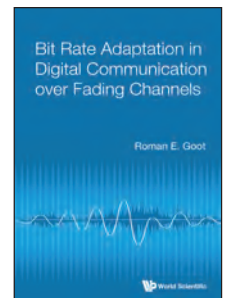
This book reviews the history of the development of mobile communication technology and the challenges faced by 4G communication networks. It introduces the vision and requirements, standardization and performance requirements of 5G, as well as the wireless, network and supporting technologies needed to meet the performance requirements of 5G. The book analyzes the frequency spectrum of 5G and the security requirements of the 5G network, and discusses the problems relating to the planning and deployment of 5G networks. It also analyzes the transformation of the business through the structure, key technologies and implementation cases of 5G based on the author's solid theoretical foundation and abundant practical experience in long-term engagement in large-scale engineering projects.

Readership: Professionals specializing in technical research or standard setting for mobile communication networks, or in the research and development of related products and businesses; future network planners, designers and network constructors.

400pp	Jan 2025	
978-981-128-774-9	US\$148	£135
978-981-128-775-6(ebook)	US\$237	£220

BIT RATE ADAPTATION IN DIGITAL COMMUNICATION OVER FADING CHANNELS

by **Roman E Goot**



In this unique compendium, the general principal of adaptation and its application in communications, especially for bit rate adaptation are considered. Two type of bit rate adaptation are treated — signal duration and size constellation. When a channel state is relatively good, size constellation adaptation should be used. With state degradation, signal duration is used. The optimal control algorithms maximizing bit rate are constructed, and quantitative characteristics of efficiency are determined for both types separately as well as when they are used jointly.

Readership: Researchers, professionals.

250pp	Jan 2025	
978-981-120-299-5	US\$108	£100
978-981-120-300-8(ebook)	US\$173	£160

NONEQUILIBRIUM QUANTUM TRANSPORT THEORY OF SPINFUL AND TOPOLOGICAL SYSTEMS

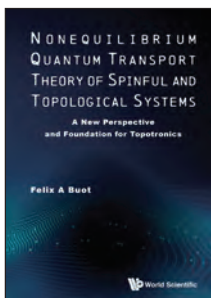
A New Perspective and Foundation for Topotronics

by **Felix A Buot** (*University of San Carlos, Cebu, Philippines*)

This book employs nonequilibrium quantum transport, based on the use of mixed Hilbert space representations and real time quantum superfield transport theory, to explain various topological phases of systems with entangled chiral degrees of freedom. It presents an entirely new perspective on topological systems, entanglement-induced localization and delocalization, integer quantum Hall effect (IQHE), fractional quantum Hall effect (FQHE), and its respective spectral zones in the Hofstadter butterfly spectrum. A simple and powerful, intuitive, and wide-ranging perspective on chiral transport dynamics.

Readership: Foundational tool for engineers and computational scientists working with topological nanodevices. Also relevant to graduates and research professionals in condensed matter physics.

350pp	May 2024	
978-981-126-471-9	US\$128	£120
978-981-126-472-6(ebook)	US\$205	£190



Selected Topics in Electronics and Systems - Volume 67

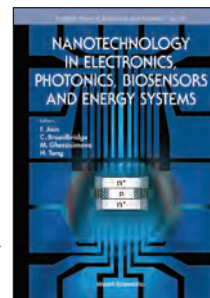
NANOTECHNOLOGY IN ELECTRONICS, PHOTONICS, BIOSENSORS AND ENERGY SYSTEMS

edited by **F Jain** (*University of Connecticut, USA*), **C Broadbridge** (*Southern Connecticut State University, USA*), **M Gherasimova** (*University of Bridgeport, USA*) & **H Tang** (*Yale University, USA*)

This unique compendium consists of peer-reviewed articles spanning from novel growth of materials for nanoelectronic and nanophotonic devices, electronic nose sensor array, bio-nano-systems, artificial intelligence/machine learning, and emerging technologies, to applications in each of these fields.

Readership: Researchers, professionals, academics, and graduate students in electrical & electronics engineering, circuits & systems, microelectronics and nanoelectronics.

256pp	Aug 2023	
978-981-12-8375-8	US\$98	£90
978-981-12-8376-5(ebook)	US\$157	£145



GEOPHYSICAL EXPLORATION TECHNOLOGY AND PRACTICE

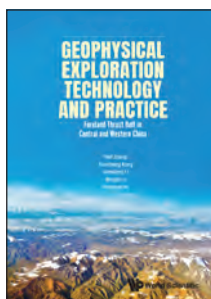
Foreland Thrust Belt in Central and Western China

by **Wei Zhang, Nanchang Kang, Jianxiong Li, Mingjie Li & Shaohua Hu** (*China National Petroleum Corporation, China*)

The volume highlights the latest progress and exploration results of theories and methods in foreland thrust belts such as Kuqa in Tarim basin, Yingxioling in Qaidam basin and Longmenshan in Sichuan basin. The technologies presented, such as wide azimuth and high-density 3D seismic acquisition and processing technology, anisotropic depth domain seismic processing technology, theoretical multi-information comprehensive structural modeling technology, multi-dimensional data fracture detection technology, etc, are widely used in complex areas such as foreland thrust belt.

Readership: Researchers, professionals, academics, undergraduate and graduate students in industrial engineering, systems engineering and applied physics.

472pp	Nov 2023	
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APPLIED ANALOG ELECTRONICS

A First Course in Electronics

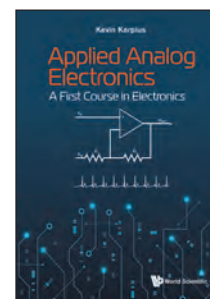
by **Kevin Karplus** (*University of California, Santa Cruz, USA*)

This textbook is for a first course on electronics. It assumes no prior electronics experience, but does assume that students have had calculus 1 (single-variable differential calculus) and high-school physics. A key idea of the course is that students need a lot of design experience and hands-on work, rather than a lot of theory. The course is centered around the labs, which are a mix of design labs and measurement/modeling labs.

This unique volume takes students from knowing no electronics to being able to design and build amplifier and filter circuits for connecting sensors to microcontrollers within 20 weeks. Students design a digital thermometer, a blood-pressure meter, an optical pulse monitor, an EKG, an audio preamplifier, and a class-D power amplifier. They also learn how to measure and characterize components, including impedance spectroscopy of a loudspeaker and of electrochemical electrodes.

Readership: Researchers, professionals, academics, undergraduate and graduate students in electrical & electronic engineering, and circuits and systems.

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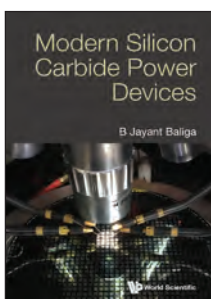
MODERN SILICON CARBIDE POWER DEVICES

by **B Jayant Baliga** (*North Carolina State University, USA*)

This unique compendium provides a comprehensive design guide for Silicon Carbide power devices. It systematically describes the device structures and analytical models for computing their characteristics. The device structures included are the Schottky diode, JBS rectifier, power MOSFET, JBSFET, IGBT and BiDFET. Unique structures that address achieving excellent voltage blocking and on-resistance are emphasized. This useful textbook and reference innovations for achieving superior high frequency operation and highlights manufacturing technology for the devices.

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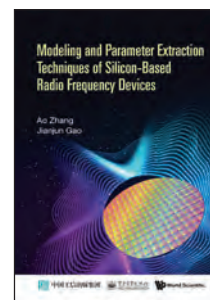
MODELING AND PARAMETER EXTRACTION TECHNIQUES OF SILICON-BASED RADIO FREQUENCY DEVICES

by **Ao Zhang** (*Nantong University, China*) & **Jianjun Gao** (*East China Normal University, China*)

This comprehensive compendium describes the basic modeling techniques for silicon-based semiconductor devices, introduces the basic concepts of silicon-based passive and active devices, and provides its state-of-the-art modeling and equivalent circuit parameter extraction methods.

Readership: Researchers, professionals, academics, graduate and undergraduate students in electrical and electronic engineering.

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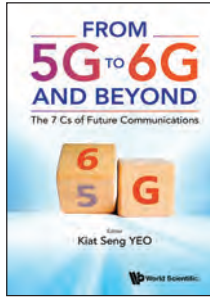
FROM 5G TO 6G AND BEYOND

The 7 Cs of Future Communications
 edited by **Kiat Seng Yeo** (Singapore University of Technology and Design, Singapore & Tianjin University, China)

This book is an excellent reference for readers specializing in electrical and electronic engineering, wireless communication, integrated circuit design, circuits and systems, to learn more about 5G and even 6G communication standards and RF/mm-wave IC design. In particular, professionals working in the foundry, fabless semiconductor companies, original equipment manufacturers, and integrated device manufacturers will also benefit from this book.

Readership: Advanced undergraduate- and graduate-level students as well as faculty and researchers in electrical & electronic engineering, wireless communication, integrated circuit design and circuits & systems. This book can be used as an excellent reference for communication engineers working on 5G, 5G and beyond and even 6G, communication standards, RF/mm-wave IC designers, engineers, consultants, engineering managers and directors, instructors and scientists working in the foundry, fabless semiconductor company, original equipment manufacturer and integrated device manufacturer.

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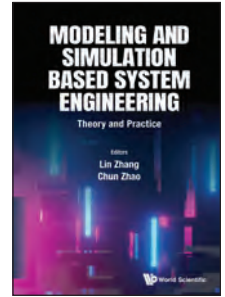
MODELING AND SIMULATION BASED SYSTEMS ENGINEERING

Theory and Practice
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Modeling and simulation (M&S) based systems engineering (MSBSE) is the extension of MBSE, which enhances the value of MBSE and the ability of digitally evaluating and optimizing the whole system through comprehensive applications of M&S technologies. This book puts together the recent research in MSBSE, and hopefully this will provide the researchers and engineers with reference cases in M&S technologies to support the R&D of complex products and systems.

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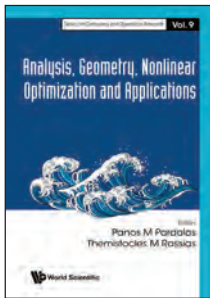
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GRAPH THEORY AND MOBILE COMMUNICATIONS

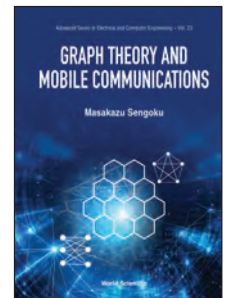
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This comprehensive compendium discusses the basics of graph theory to its application, focusing on the application of graph theory to mobile communications.

A mobile communication connects a mobile terminal and a base station wirelessly, and the base station enables communications all over the world via a wired and satellite communication system. This means that the mobile communication system includes wire and wireless technologies, and also hardware such as analog electric circuits, digital circuits and a software part such as computer algorithms.

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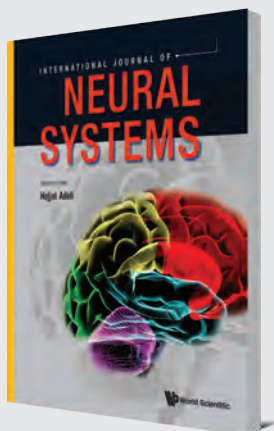
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Editor-in-Chief: Hojjat Adeli
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The International Journal of Neural Systems is a bimonthly peer-reviewed journal which covers information processing in natural and artificial neural systems. The journal presents a fresh, undogmatic attitude towards this multi-disciplinary field, aiming to be a forum for novel ideas and improved understanding of collective and cooperative phenomena in systems with computational capabilities.



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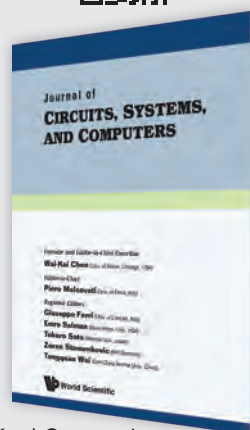
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Editor-in-Chief: Piero Malcovati
(University of Pavia, Italy)

Journal of Circuits, Systems and Computers is published eight times a year, and covers a wide scope, ranging from mathematical foundations to practical engineering design in the general areas of circuits, systems, and computers. Although primary emphasis will be on research papers, survey, expository and tutorial papers are also welcome.



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Editors-in-Chief: Lin Zhang (Beihang Univ. (BUAA), China)
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This is a quarterly journal which deals with the fields of system modeling, simulation and scientific computing. The scope of the journal covers, but is not limited to: Modeling theory and methodology for complex systems, system simulation theory and methodology • Complex applications of high level simulation languages, Multi-parameter Optimization in simulation • Verification, validation and accreditation of theory and technology • Finite element methods, finite difference methods, Approximation theory • Distributed/ High-Performance/Pervasive/Grid/ Cloud Computing, Bioinformatics/Data-Mining, High Performance simulation technology • Computational electromagnetics, electrostatics, fluid dynamics, computational heat, mass, and momentum transfer • M&S technology of continuous systems/discrete systems/hybrid systems/ Intelligent systems, complex systems/open systems/huge systems • SBA/virtual prototyping engineering technology • Simulation language methodology, supporting platforms, application techniques



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Editors-in-Chief
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This International Journal has served graduate students and those in R&D, managerial and marketing positions by giving state-of-the-art data, and the latest research trends. Its main charter is to promote engineering education by advancing interdisciplinary science between electronics and systems and to explore high speed technology in photonics and electronics.



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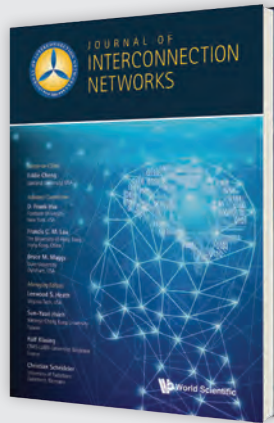
JOURNAL OF INTERCONNECTION NETWORKS (JOIN)

<https://www.worldscientific.com/join>



Editor-in-Chief: Eddie Cheng (Oakland University, USA)

The *Journal of Interconnection Networks (JOIN)* is an international scientific journal dedicated to advancing the state-of-the-art of interconnection networks. The journal addresses all aspects of interconnection networks including their theory, analysis, design, implementation and application, and corresponding issues of communication, computing and function arising from (or applied to) a variety of multifaceted networks. Interconnection problems occur at different levels in the hardware and software design of communicating entities in integrated circuits, multiprocessors, multicomputers, and communication networks as diverse as telephone systems, cable network systems, computer networks, mobile communication networks, satellite network systems, the Internet and biological systems.



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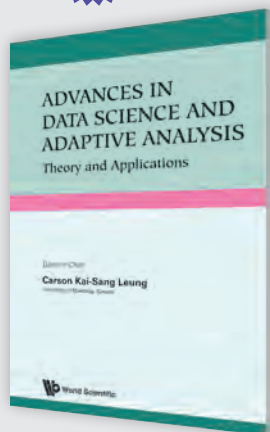
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Editor-in-Chief: Carson Kai-Sang Leung (University of Manitoba, Canada)



This is an interdisciplinary journal dedicated to report original research results on data analysis methodology developments and their applications, with a special emphasis on the adaptive approaches. The mission of the journal is to elevate data analysis from the routine data processing by traditional tools to a new scientific level, which encourages innovative methods development for data science and its scientific research and engineering applications.



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INTERNATIONAL JOURNAL OF AIR-CONDITIONING AND REFRIGERATION (IJACR)

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Editor-in-Chief: Yong Tae Kang (Korea University, Korea)

As the only international journal in the field of air-conditioning and refrigeration in Asia, IJACR reports researches on the equipments for controlling indoor environment and cooling/refrigeration. It includes broad range of applications and underlying theories including fluid dynamics, thermodynamics, heat transfer, and nano/bio-related technologies. In addition, it covers future energy technologies, such as fuel cell, wind turbine, solar cell/heat, geothermal energy and etc.



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Editor-in-Chief: Haibin Duan (Beihang University, China)

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INTERNATIONAL JOURNAL OF HUMANOID ROBOTICS (IJHR)

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Editors-in-Chief

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The *International Journal of Humanoid Robotics* (IJHR) covers all subjects on the mind and body of humanoid robots. It is dedicated to advancing new theories, new techniques, and new implementations contributing to the successful achievement of future robots which not only imitate human beings, but also serve human beings. While IJHR encourages the contribution of original papers which are solidly grounded on proven theories or experimental procedures, the journal also encourages the contribution of innovative papers which venture into the new, frontier areas in robotics.



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Editor-in-Chief: Jaydev P. Desai (*Georgia Tech., USA*)

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UNMANNED SYSTEMS (US)

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In recent years, Artificial Intelligence has become part of almost every aspect of innovation, ranging from medical research to Internet Of Things (IoT), its development has redefined research and development in many ways. To properly document the landmark development in Artificial Intelligence, this Annual Review aims to invite pioneers and experts in the fourth front of AI research to document and keeps audience updated on the story of this remarkable journey from Chess playing program in the 1950s to today underpinning a spectrum breath-taking innovations. On the other hand, this Annual Review of Artificial Intelligence also plans to serve as a forum for researchers and scientists alike to share their research results and exchange notes on future directions of Artificial Intelligence; topics include, but not limited to: deep learning, advanced machine learning, computer vision, natural language processing, reasoning, planning, cognitive sciences etc.



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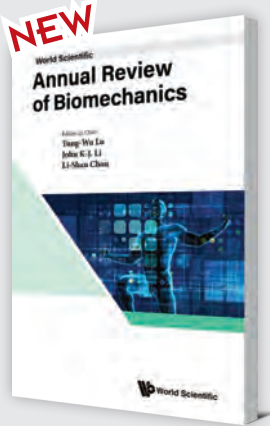
WORLD SCIENTIFIC ANNUAL REVIEW OF BIOMECHANICS



<https://www.worldscientific.com/wsarb>

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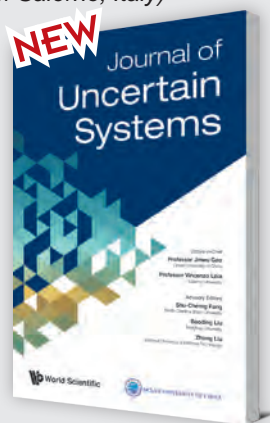
JOURNAL OF UNCERTAIN SYSTEMS



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Editors-in-Chief: Jinwu Gao (*Ocean University of China, China*) & Vincenzo Loia (*University of Salerno, Italy*)

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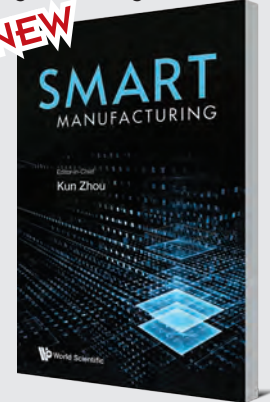
SMART MANUFACTURING



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✓	Title	Page
	5G MOBILE COMMUNICATION SYSTEM AND KEY TECHNOLOGIES	7
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	APPLIED ANALOG ELECTRONICS: A FIRST COURSE IN ELECTRONICS	10
	BIT RATE ADAPTATION IN DIGITAL COMMUNICATION OVER FADING CHANNELS	7
	CIRCUIT ANALYSIS (SECOND EDITION)	4
	CO-DESIGN AND MODELLING FOR ADVANCED INTEGRATION AND PACKAGING: MANUFACTURING AND RELIABILITY	4
	DESIGN FOR SIX SIGMA FOR ENGINEERS	8
	DISTRIBUTED INTELLIGENT CIRCUITS AND SYSTEMS	6
	EMBEDDED COOLING OF ELECTRONIC DEVICES: CONDUCTION, EVAPORATION, AND SINGLE- AND TWO-PHASE CONVECTION	6
	EMBEDDED DIELECTRICS FOR ELECTRONIC PACKAGING	5
	FLEXIBLE SENSORS: MATERIALS, DEVICES AND APPLICATIONS	5
	FROM 5G TO 6G AND BEYOND: THE 7 CS OF FUTURE COMMUNICATIONS	10
	FROM COMPLEX ANALYSIS TO METASCIENCE: A STROLL AROUND BOUNDARY BEHAVIOR, SIMILARITY AND DUALITY	8
	FUNDAMENTAL AND APPLIED PROBLEMS AND SOLUTIONS IN TERAHERTZ-RELATED DEVICES AND TECHNOLOGIES	5
	FUNDAMENTALS OF ELECTRIC CIRCUITS AND TRANSMISSION LINES	4
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	GUIDE TO CHARACTERISTICS AND CHARACTERIZATION OF SEMICONDUCTOR SURFACES	5
	HOW TO DERIVE A FORMULA - VOLUME 2: FURTHER ANALYTICAL SKILLS AND METHODS FOR PHYSICAL SCIENTISTS	9
	INTRODUCTION TO ELECTRONIC CIRCUITS: A DESIGN-ORIENTED APPROACH	4

✓	Title	Page
	INTRODUCTION TO WORKPLACE SAFETY AND HEALTH MANAGEMENT: A SYSTEMS THINKING APPROACH (THIRD EDITION)	9
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	MODELING AND PARAMETER EXTRACTION TECHNIQUES OF SILICON-BASED RADIO FREQUENCY DEVICES	10
	MODELING AND SIMULATION BASED SYSTEMS ENGINEERING: THEORY AND PRACTICE	11
	MODERN SILICON CARBIDE POWER DEVICES	10
	NANOTECHNOLOGY IN ELECTRONICS, PHOTONICS, BIOSENSORS AND ENERGY SYSTEMS	10
	NONEQUILIBRIUM QUANTUM TRANSPORT THEORY OF SPINFUL AND TOPOLOGICAL SYSTEMS: A NEW PERSPECTIVE AND FOUNDATION FOR TOPOTRONICS	9
	NONLINEAR SYSTEMS: STABILITY, DYNAMICS AND CONTROL	9
	POWER BEAMING: HISTORY, THEORY AND PRACTICE	4
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	SELECTED WORKS OF RODERICK S. C. WONG, THE - VOLUME 4	9
	SENSORS AND THE INTERNET OF THINGS: ACQUISITION AND USE OF BIG DATA	7
	STOCHASTIC GEOMETRIC ANALYSIS WITH APPLICATIONS	9
	VISIR HANDBOOK: ANALOG ELECTRONICS WITH THE VISIR REMOTE LAB: REAL ONLINE EXPERIMENTS	6
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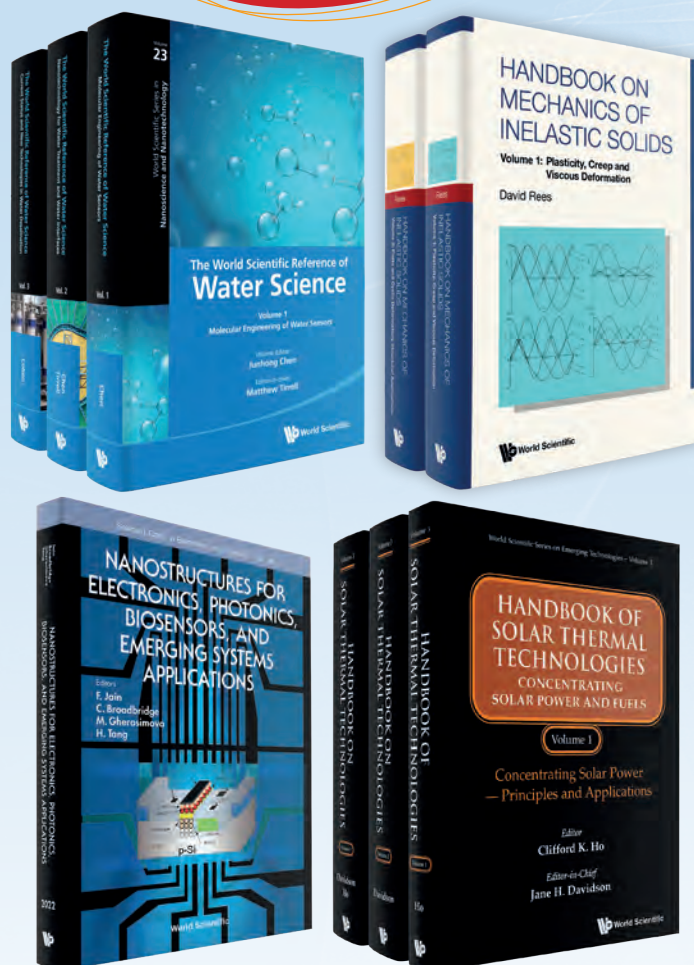
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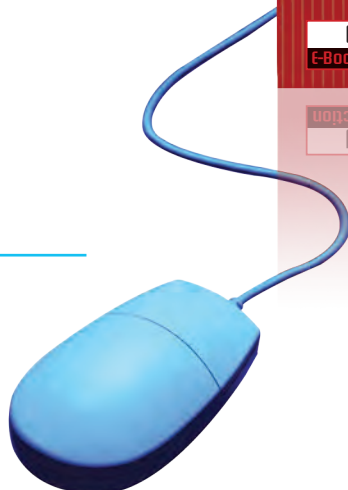


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