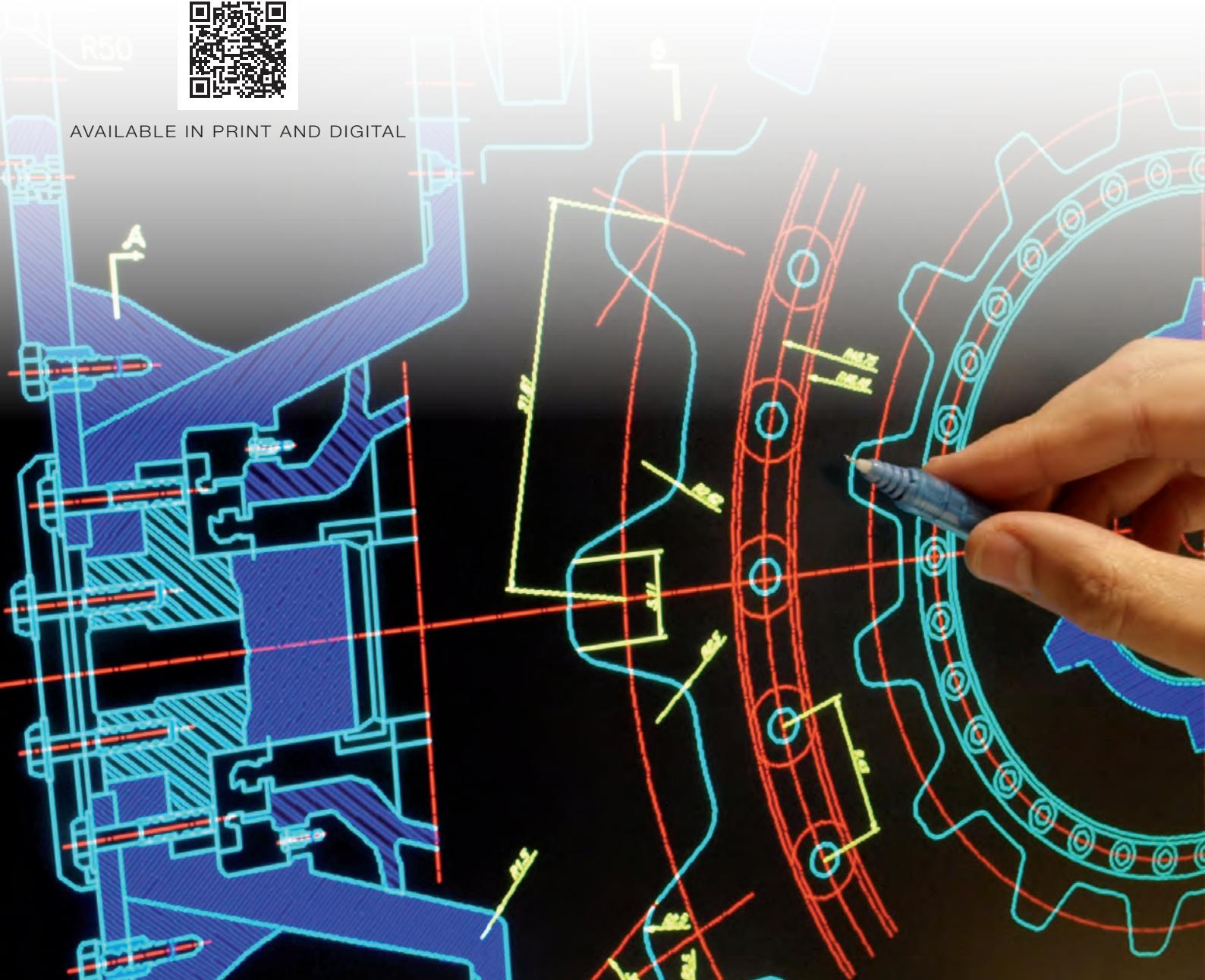


Mechanical Engineering

2026



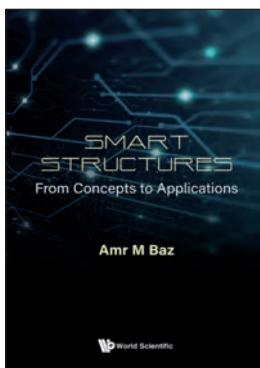
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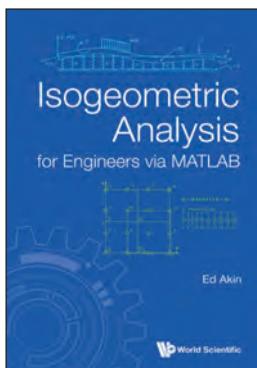
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page 4



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page 4



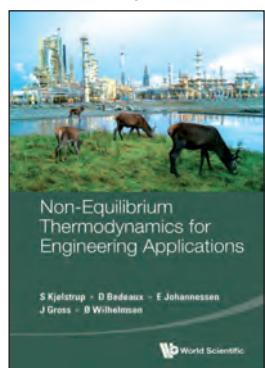
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(Rice University, USA)

page 4



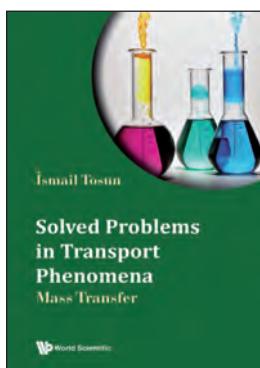
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(Wayne State University, USA)
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(Technical University of Munich, Germany)

page 5



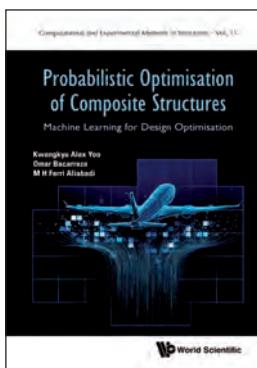
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D Bedeaux (Norwegian University of Science and Technology, Norway),
E Johannessen (Equinor, Norway),
J Gross (University of Stuttgart, Germany) & Ø Wilhelmsen (Norwegian University of Science and Technology, Norway)

page 5



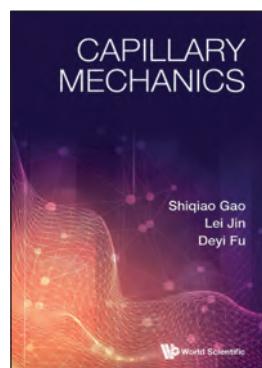
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page 5



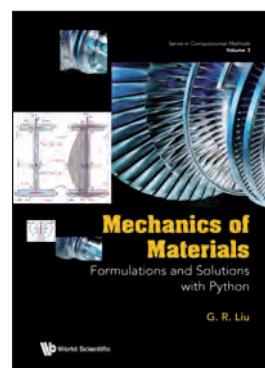
by Kwangkyu Alex Yoo
(Imperial College London, UK & Deep.Meta, UK), Omar Bacarreza
(Imperial College London, UK & ORCA Computing, UK) & M H Ferri Aliabadi (Imperial College London, UK)

page 7



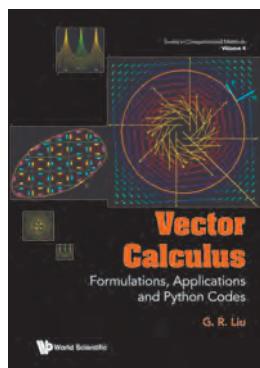
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page 7



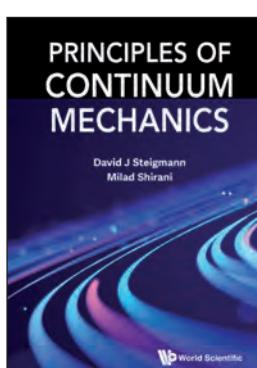
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page 7



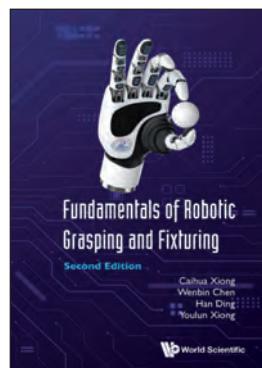
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page 7



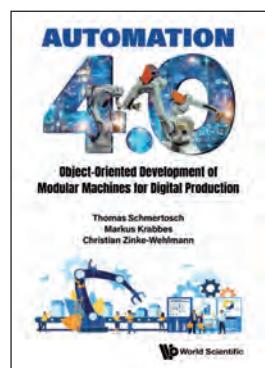
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(University of California, Berkeley, USA) & Milad Shirani (University of California, Berkeley, USA)

page 8



by Caihua Xiong,
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page 11



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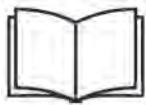
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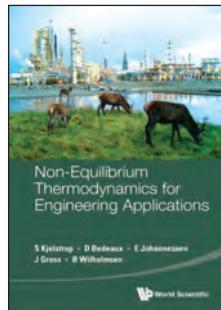
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"Non-equilibrium Thermodynamics for Engineering Applications" is essential for those seeking to learn the foundational principles of non-equilibrium thermodynamics theory and its applications in optimizing chemical processes. The text builds upon the authors' extensive expertise in this area, accrued through years of teaching at graduate and postgraduate levels and advancing the field of non-equilibrium thermodynamics at their respective academic institutions. This expertise is evident in the writing style, effectively making the concepts engaging and accessible"

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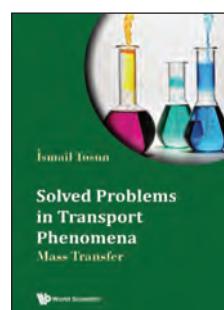
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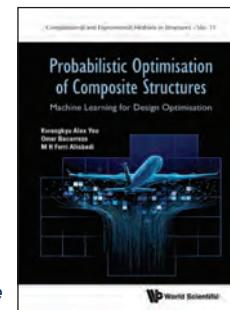
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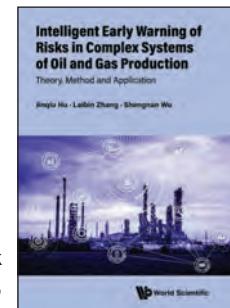
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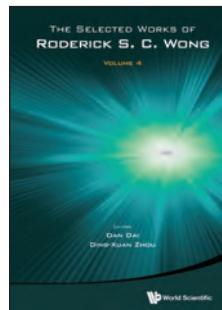
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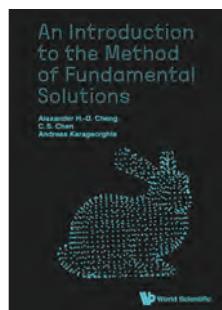
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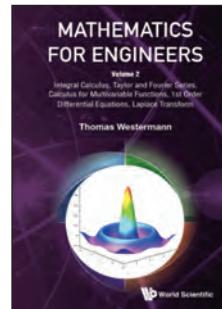
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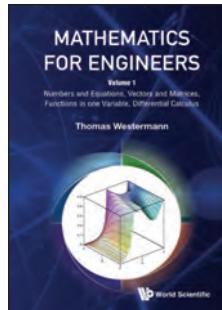
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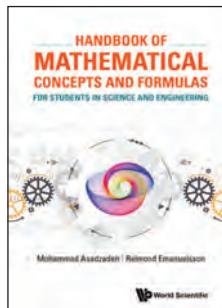
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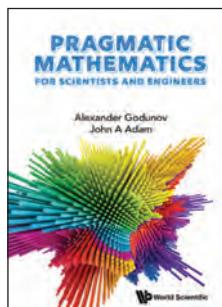
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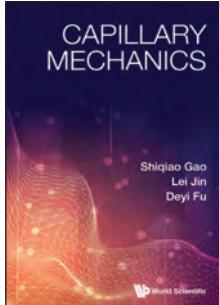
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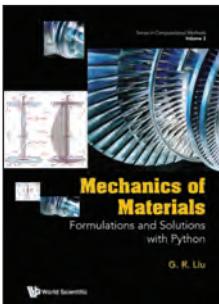
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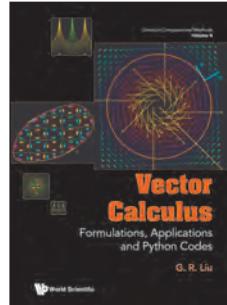
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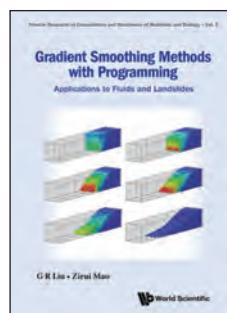
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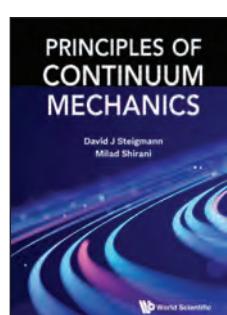
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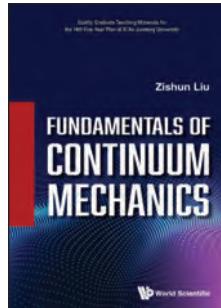
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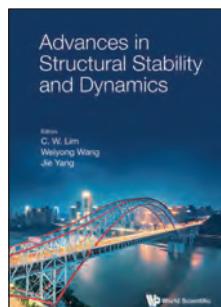
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FUNDAMENTALS OF ROBOTIC GRASPING AND FIXTURING

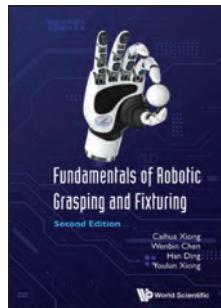
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This book is ideal for researchers, practicing engineers, and students aiming for a practical, physically grounded perspective on nonlinear structural analysis, particularly for complex framed structures where traditional FEM approaches fall short.

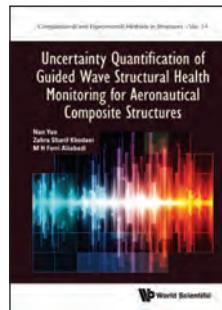
Readership: Senior undergraduate and graduate students, researchers and practitioners in the fields of structural engineering, mechanics, and civil engineering.

400pp Aug 2025
978-981-9808-21-2 US\$148 £135
978-981-9808-22-9(ebook) US\$237 £220

Computational and Experimental Methods in Structures - Vol 14

UNCERTAINTY QUANTIFICATION OF GUIDED WAVE STRUCTURAL HEALTH MONITORING FOR AERONAUTICAL COMPOSITE STRUCTURES

by Nan Yue (Delft University of Technology, The Netherlands), Zahra Sharif Khodaei (Imperial College London, UK) & M H Ferri Aliabadi (Imperial College London, UK)



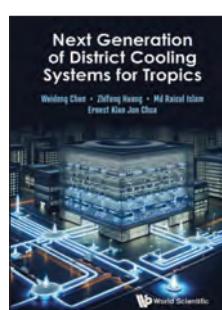
This book presents a guided wave-based structural health monitoring (GWSHM) system for aeronautical composite structures. Particular attention is paid to the development of a reliable and reproducible system with the capability to detect and localise barely visible impact damage (BVID) in carbon-fibre-reinforced polymer (CFRP) structures.

Readership: Advanced undergraduate and graduate students, researchers and practitioners in the fields of aerospace engineering, structural health monitoring, and ultrasonics.

204pp Mar 2024
978-1-80061-469-7 US\$88 £80
978-1-80061-470-3(ebook) US\$141 £130

NEXT GENERATION OF DISTRICT COOLING SYSTEMS FOR TROPICS

by Weidong Chen (National University of Singapore, Singapore), Zhifeng Huang (National University of Singapore, Singapore), Md Raisul Islam (National University of Singapore, Singapore) & Ernest Kian Jon Chua (National University of Singapore, Singapore)



This compendium provides a comprehensive coverage of the latest development of smart district cooling systems in the world today, starting from smart chiller and pumping control and scheduling strategies to recent Artificial intelligence (AI), Machine learning (ML), and blockchain (BC) developments in the field.

Readership: Researchers, professionals, academics and graduate students in mechanical engineering, systems engineering, energy studies and industrial engineering.

236pp Jan 2025
978-981-128-512-7 US\$88 £80
978-981-128-513-4(ebook) US\$141 £130

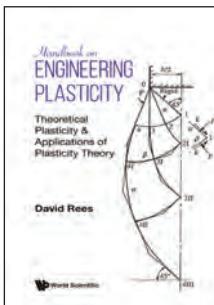
HANDBOOK ON ENGINEERING PLASTICITY

Theoretical Plasticity & Applications of Plasticity Theory
by **David Rees** (Brunel University of London, UK)

This book brings together, in sixteen chapters, those elements of the mechanics of plasticity most pertinent to engineers. A textbook style has been adopted in which worked examples and exercises illustrate the application of the theoretical material. The latter is provided with appropriate references to journals and other published sources. An appendix contains worked examples to selected exercises.

Readership: Undergraduates, postgraduates and practitioners in metal working. Includes applied mathematicians, physicists and materials scientists.

768pp	Apr 2025
978-1-80061-994-4	US\$248
978-1-80061-995-1(ebook)	US\$397



Frontier Research in Computation and Mechanics of Materials and Biology - Vol 6

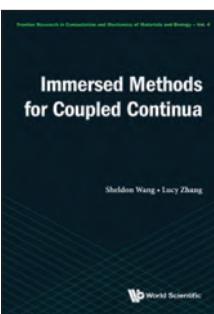
IMMERSED METHODS FOR COUPLED CONTINUA

by **Sheldon Wang** (Midwestern State University, USA) & **Lucy Zhang** (Rensselaer Polytechnic Institute, USA)

This compendium provides a broad introduction of original immersed boundary methods and current extension in computational mechanics communities. It highlights a comprehensive review of immersed methods in the context of computational fluid and solid mechanics.

Readership: Researchers, academics, professionals and graduate students in mechanical engineering, numerical analysis & computational maths, nonlinear science, and ocean engineering.

400pp	Sep 2025
978-981-3234-50-5	US\$138
978-981-3234-51-2(ebook)	US\$221



Frontier Research in Computation and Mechanics of Materials and Biology - Vol 7

ACOUSTIC METAMATERIALS AND WAVE CONTROL

by **Xiaoming Zhou** (Beijing Institute of Technology, China) & **Gengkai Hu** (Beijing Institute of Technology, China)

The book starts with a simple mass-in-mass chain model to illustrate the concept of negative mass due to internal resonance and its impact on wave transmission. The practical transformation theory for controlling acoustic waves is explained. Pentamode acoustic metamaterials and related cloaking design are also included. Finally, the book ends up with the sub-diffraction-limited acoustic imaging based on metamaterials.

This comprehensive title gives a broad overview on different aspects of acoustic metamaterials with a balance of theory and experiment. It is not only a collection of the authors' original works to these interesting topics, but also the main achievements in this field.

Readership: Researchers, academics, professionals and graduate students in mechanical engineering, condensed matter physics, new materials, classical mechanics and applied physics.

300pp	Dec 2025
978-981-4641-68-5	US\$130
978-981-4641-69-2(ebook)	US\$208

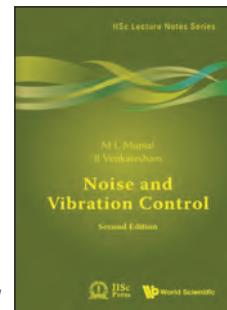
IISc Lecture Notes Series - Vol 8

NOISE AND VIBRATION CONTROL

2nd Edition
by **M L Munjal** (Indian Institute of Science, India) & **B Venkatesham** (Indian Institute of Technology Hyderabad, India)

Review of the First Edition:

"The exercises in each chapter are self-contained and originate from the theory and practice, so that the readers and especially the designers and researchers in the subject can find many examples of controlled vibrations."



Zentralblatt MATH

Readership: Researchers, professionals, academics, and senior graduate students in mechanical engineering and environmental engineering.

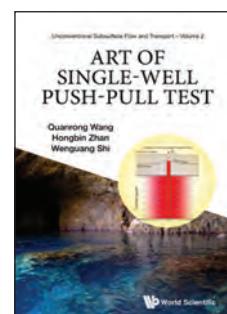
440pp	Aug 2024
978-981-128-314-7	US\$138
978-981-128-315-4(ebook)	US\$221

Unconventional Subsurface Flow and Transport - Vol 2

ART OF SINGLE-WELL PUSH-PULL TEST

by **Quanrong Wang** (China University of Geosciences, Wuhan, China), **Hongbin Zhan** (Texas A&M University, USA) & **Wenguang Shi** (China University of Geosciences, Wuhan, China)

This book presents the latest achievements of SWPP in the radial dispersion. It provides the latest SWPP models, analytical solutions, numerical solutions and experimental data, and delves into the intricacies of SWPP testing, presenting cutting-edge models, analytical and numerical solutions, and field application.



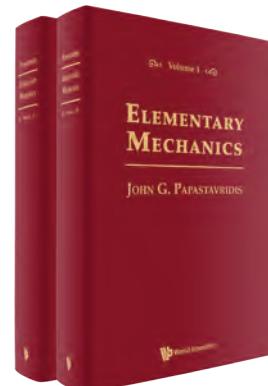
Readership: Graduate students and upper-level undergraduates studying hydrogeology, geothermal energy, environmental science, and related disciplines, and industry professionals — including hydrogeologists, geothermal engineers, environmental consultants, and energy company personnel.

520pp	Jul 2025
978-981-129-558-4	US\$168
978-981-129-559-1(ebook)	US\$269

ELEMENTARY MECHANICS

(In 2 Volumes)
by **John G Papastavridis** (Georgia Institute of Technology, USA)

This is a comprehensive and state-of-the-art compendium of classical or Newtonian (non relativistic and non quantum) mechanics from an advanced and unified viewpoint, namely, from the continuum, or field, form of the fundamental principles of linear and angular momentum of Euler, Cauchy, Hamel et al.



Readership: Teachers, and Researchers in most areas of engineering (especially aerospace, mechanical, and engineering mechanics), physics, and applied mathematics.

1680pp	Jul 2025
978-981-4603-04-1(Set)	US\$384
978-981-4603-05-8(Set)(ebook)	US\$614



Ocean / Coastal Engineering

Ship and Offshore Structural Mechanics - Vol 1

NONLINEAR FINITE ELEMENT METHODS

Extreme and Accidental Conditions

by **Yong Bai** (Zhejiang University, China) &

Jeom Paik (University College London, UK)

By keeping the mathematics simple, this reference volume includes a comprehensive presentation and analysis of algorithms of time-dependent phenomena plus beam, plate, and shell theories. Since the majority of applications of FEM are in the realm of mechanics including solid, fluids, structural and soil, descriptions in this book are focused on the important applications in structural engineering and science.

Readership: Researchers, professionals, academics and graduate students in civil engineering, mechanical engineering and ocean engineering.

300pp	Oct 2025	
978-981-121-904-7	US\$118	£110
978-981-121-905-4(ebook)	US\$189	£175

Advanced Series on Ocean Engineering - Vol 58

MARITIME HYDRAULICS

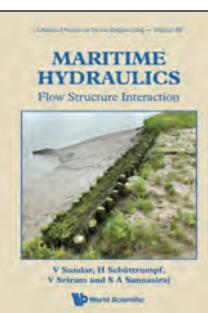
Flow Structure Interaction

by **V Sundar** (Indian Institute of Technology Madras, India), **H Schütrumpf** (RWTH Aachen University, Germany), **V Sriram** (Indian Institute of Technology Madras, India) & **S A Sannasiraj** (Indian Institute of Technology Madras, India)

This unique compendium comprehensively covers several important topics related to the field of maritime hydraulics, particularly the underlying physics in the wave structure interaction with the coastal structures, coastal and inland flooding during extreme events in addition to perineal erosion. These topics are well understood through physical and numerical modelling, in which the scale effects, proving the models and its range of applicability are vividly discussed.

Readership: Researchers, professionals, academics and graduate students in coastal engineering.

488pp	Oct 2024	
978-981-129-416-7	US\$148	£135
978-981-129-417-4(ebook)	US\$237	£220



COASTAL MANAGEMENT IN THE FACE OF CLIMATE CHANGE

by **Dominic Reeve** (University of Plymouth, UK)

The book is aimed at practicing coastal managers and engineers; to provide some practical guide to using the results of research efforts over the last decade. The material is also suitable for final year undergraduates and MSc students. It brings together in one book material that is currently dispersed across many sources which are not easy for the non-expert to access.

Readership: Graduate students, practitioners, and researchers in coastal engineering, civil engineering, environmental management and planning and environmental engineering.

200pp	Aug 2026	
978-1-84816-583-0	US\$106	£100
978-1-84816-584-7(ebook)	US\$170	£155

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Thermal Engineering / Packaging and Thermodynamics

FLUID GAUGE THEORY

New Perspectives on Fluid Mechanics from Theoretical Physics by **Tsutomu (Jixin) Kambe**

This new approach to Fluid Mechanics from the gauge-theoretic viewpoint is based on a new formulation proposed in two original papers — *Fluid Gauge Theory* and *Gauge Symmetries in Physical Fields*.

With a common platform in electromagnetism and theory of gravitation in theoretical physics, the material in the book is unique.

- Useful for researchers and postgraduate students not only in the field of fluid mechanics, but also turbulence, mechanical engineering, physics, geophysics, or space physics, and also to general readers interested in science
- Provides a key to resolving the historical riddle of the dust striation pattern observed in the Kundt's experiment of resonance tube of acoustics in 1866, more than 150 years ago; Computer experiments are currently carried out to study the Kundt's experiment of acoustic resonance

Readership: Graduate students and researchers in the field of fluid mechanics, mechanical engineering, physics, geophysics or space physics.

180pp	Jan 2027	
978-981-126-122-0	US\$78	£70
978-981-126-123-7(ebook)	US\$125	£115

THERMAL ENGINEERING

A Unified Approach

by **Abdulmajeed Mohamad** (University of Calgary, Canada) & **Shanmugam Dhinakaran** (Indian Institute of Technology, India)

This unique compendium explores its foundational concepts to advanced applications in modern technology. The book provides an integrated treatment of key topics, including the thermophysical properties of materials, the behavior of pure substances, and the fundamentals of energy transfer. Each chapter takes the reader from basic principles such as force, work, and energy, through to the complexities of entropy, energy balance equations, and their applications in real-world systems.

Readership: Researchers, professionals, academics and graduate students in mechanical engineering, aerospace engineering, and chemical engineering.

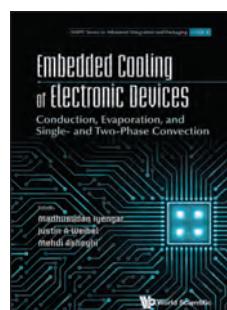
350pp	Sep 2025	
978-981-9806-82-9	US\$138	£125
978-981-9806-83-6(ebook)	US\$221	£205

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

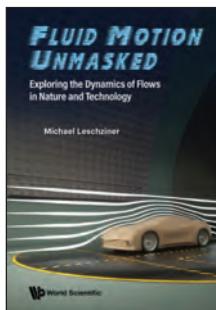
FLUID MOTION UNMASKED

Exploring the Dynamics of Flows in Nature and Technology
by Michael Leschziner
(Imperial College London, UK)

This book provides an engaging and descriptive introduction to the expansive world of fluid flows in nature and engineering, exploring their critical role in our lives. The diverse mechanisms behind observable phenomena and the properties of fluid flows are illuminated and linked to engineering applications, providing a solid foundation for a deeper appreciation of fluid dynamics. While the science underpinning these phenomena is inherently mathematical, this book

Readership: The book is geared towards prospective and early-stage undergraduate science and engineering students, particularly in aerospace, mechanical and civil engineering courses. The book will also appeal to scientifically curious non-specialists with an interest in engineering and fluid dynamics.

250pp	Sep 2025
978-1-80061-774-2(pbk)	US\$48 £45
978-1-80061-758-2	US\$88 £80
978-1-80061-759-9(ebook)	US\$141 £130



World Scientific Series on Emerging Technologies: Avram Bar-Cohen Memorial Series - Vol 6

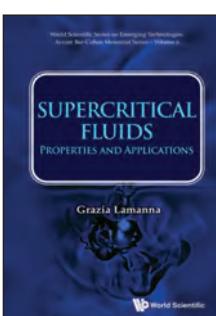
SUPERCritical FLUIDS

Properties and Applications
by Grazia Lamanna (University of Stuttgart, Germany)

This unique compendium revises the most recent thermodynamic theories of supercritical fluids, focusing on the dynamic crossover and the role of thermodynamic properties in controlling this crossover.

Readership: Researchers, professionals, academics, undergraduate and graduate students in aerospace engineering, applied physics and chemical engineering.

348pp	Oct 2024
978-981-127-075-8	US\$138 £125
978-981-127-076-5(ebook)	US\$221 £205



THERMAL METAMATERIALS

Controlling the Flow of Heat
by Ying Li (Zhejiang University, China), Liujun Xu (Graduate School of China Academy of Engineering Physics, China) & Cheng-Wei Qiu (National University of Singapore, Singapore)

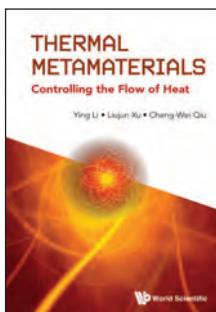
"The authors have played indispensable roles in highlighting the field's importance through their contributions to thermal metamaterials."

This book provides a comprehensive and insightful overview of landmark contributions and is suitable for both experts and novices."

Jiping Huang
Professor and Vice-Dean, Department of Physics,
Fudan University, China

Readership: This book is suitable for undergraduate and graduate students in physics, materials science, mechanical engineering, and other majors related to thermal science and heat transfer. It can also serve as a reference for interested researchers and faculty.

320pp	Mar 2025
978-981-129-440-2	US\$128 £120
978-981-129-441-9(ebook)	US\$205 £190



Applications in Mechanical Engineering

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)

The aim of this book is to provide readers with an in-depth understanding of current state-of-the-art in the use of co-design and modeling tools to predict reliability and robustness of advanced packaging and integration technologies for both micro and power electronic systems. Authored by world leading experts in the field of multiphysics/multi-domain modeling, the book starts with an overview of advanced packaging and integration technologies which details the manufacturing and reliability challenges that need to be addressed in the development of, for example, 3D-IC, novel bumping technologies such as a copper column, lead-free solders and nano-sintering, and packaging technologies such as wafer level packaging. The book then progresses to discuss state-of-the-art modeling tools and techniques and the evolving progression towards co-design, and multi-domain analysis to ensure reliability and robustness. .

Readership: Graduate students, researchers professionals, and electrical and mechanical engineers.

300pp	Dec 2026
978-981-4740-20-3	US\$138 £125
978-981-4740-21-0 (ebook)	US\$221 £205

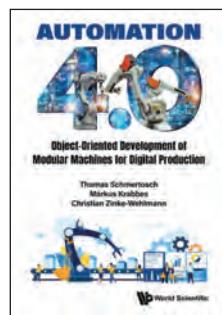
AUTOMATION 4.0

Object-Oriented Development of Modular Machines for Digital Production
by Thomas Schmertosch (Leipzig University of Applied Sciences, Germany), Markus Krabbes (Merseburg University of Applied Sciences, Germany) & Christian Zinke-Wehlmann (Institute for Applied Informatics at the Leipzig University, Germany)

Automation 4.0 shows readers how the requirements of Industry 4.0 may be projected onto known design principles. The resulting functions are illustrated using real-life examples from industry to create a roadmap for drawing up a specification sheet for the design of a versatile processing machine. Numerous practical examples illustrate the modular, function- and object-oriented design of individual machines and systems as a solution for increasing efficiency throughout their entire life cycle.

Readership: Students of automation technology, mechatronics and industrial engineering with a focus on electrical engineering/automation as well as for development and design engineers in those fields.

352pp	Mar 2025
978-981-129-701-4	US\$118 £100
978-981-129-702-1(ebook)	US\$189 £175



Series in Electrical and Computer Engineering - Vol 8

A MATHEMATICAL INTRODUCTION TO CONTROL THEORY

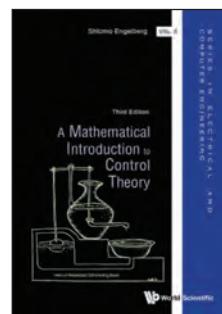
(3rd Edition)
by Shlomo Engelberg (Jerusalem College of Technology, Israel)

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

Readership: Professionals, academics, researchers and graduate students.

484pp	May 2024
978-1-80061-554-0	US\$108 £100
978-1-80061-555-7(ebook)	US\$173 £160



TRIBO-ELECTROSTATICS

Fundamentals, Challenges and Perspectives

by **Lucian Dascalescu** (University of Poitiers, France), **Mihai Lungu** (West University of Timisoara, Romania) & **Thami Zeghloul** (University of Poitiers, France)

No other books in the field of tribo-electrostatics have so comprehensively cover the basic knowledge and recent development on the subject, and should be benefit to graduate students in physical and engineering sciences. Such a text-book could also be of use to the engineers that need a better understanding of the physics behind the various useful or hazardous aspects of tribo-electrostatics, as well as to those who teach physics at high-school or university college level

Readership: Advanced undergraduate and graduate students in Applied Physics and Engineering, researchers and practitioners in the fields of electrostatic processes and tribology, teachers of general physics at high-school or college level.

200pp Oct 2025
 978-981-123-602-0 US\$88 £80
 978-981-123-603-7(ebook) US\$141 £130

NETWORKED SYSTEMS IN INDUSTRY 4.0

Bus Systems • Industrial Ethernet • Mobile Communication • Cyber Physical Systems
 by **Reinhard Langmann** (EduNet World Association e.V., Germany)

This textbook conveys the basic knowledge required for the successful use of intelligent networked production systems. It is aimed at students from the fields of mechanical engineering, electrical engineering as well as process and environmental engineering, and is also suitable for practitioners who are involved in the automation of production. The basics of networked systems are illustrated using numerous application cases. More than 80 exercises provide the opportunity to test and deepen the knowledge acquired. The solutions to all the exercises, as well as additional supplementary material are also available.

Readership: Graduate and undergraduate students from the fields of mechanical engineering, electrical engineering as well as process and environmental engineering.

440pp Mar 2025
 978-981-129-655-0 US\$148 £135
 978-981-129-656-7(ebook) US\$237 £220

MODELING AND SIMULATION IN MANUFACTURING

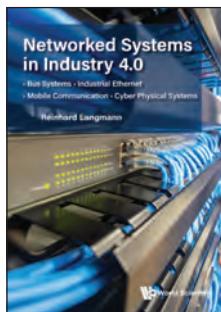
edited by **Lin Zhang** (Beihang University (BUAA), China)

The manufacturing industry is an important field of application for modeling and simulation (M&S) technology. M&S technology provides an effective, safe, and economical way for manufacturing practitioners to analyze and understand complex situations in manufacturing. This enables them to optimize production processes, reduce dependence on physical experiments, improve product quality, reduce production costs, and quickly respond to market changes. After more than 70 years of development, M&S technology has been successfully applied to all phases of the manufacturing lifecycle.

Showcases the advantages of M&S technology in researching topics characterised by high complexity, strong uncertainty, and nonlinearity

Readership: Practitioners and researchers specializing in the fields of System Engineering

320pp Apr 2025
 978-981-9801-46-6 US\$108 £100
 978-981-9801-47-3(ebook) US\$173 £160



Series on Quality, Reliability and Engineering Statistics

DESIGN FOR SIX SIGMA FOR ENGINEERS

by **Matthew Hu** (Wayne State University, USA), **Kai Yang** (Wayne State University, USA), **Michael Sheh** (Engineous Software Inc., USA) & **Malik Kayupov** (Engineous Software Inc., USA)

The various practices from inventive design methodologies, deterministic and stochastic numerical methods, and the use of CAE simulation techniques, are mapped to the DFSS procedure. Many case studies are used to illustrate how tools are used in DFSS processes. Written by DFSS practitioners and technologists, this book is intended for any engineer to use as a reference in executing DFSS projects.

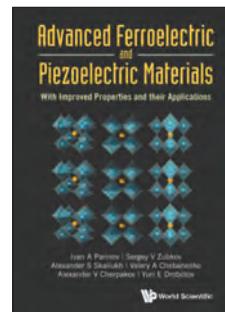
Readership: Graduate students, engineers and industrialists interested in the Design for Six Sigma methodology.

500pp Oct 2025
 978-981-256-063-6 US\$115 £105

ADVANCED FERROELECTRIC AND PIEZOELECTRIC MATERIALS

With Improved Properties and their Applications

by **Ivan A Parinov** (Southern Federal University, Russia), **Sergey V Zubkov** (Southern Federal University, Russia), **Alexander S Skaliukh** (Southern Federal University, Russia), **Valery A Chebanenko** (Southern Scientific Center of the Russian Academy of Sciences, Russia), **Alexander V Cherpakov** (Southern Federal University, Russia) & **Yuri E Drobotov** (Southern Federal University, Russia)



Discover the latest advances in ferroelectric and piezoelectric material sciences with this comprehensive monograph, divided into six chapters, each offering unique insights into the field.

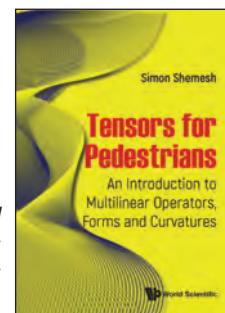
Readership: Researchers working on ferroelectric and piezoelectric materials.

312pp Apr 2024
 978-981-128-424-3 US\$118 £110
 978-981-128-425-0(ebook) US\$189 £175

TENSORS FOR PEDESTRIANS

An Introduction to Multilinear Operators, Forms and Curvatures

by **Simon Shemesh** (Israel Aerospace Industries, Israel)



Tensor for Pedestrians is an accessible aid for physics and engineering undergraduates who seek a deeper understanding of tensors at an intuitive level. The book is intended as a self-study introduction to differential geometry, curvature, and Cartan moving frames. The subjects treated are planned to transit the student from the standard vector calculus taught in introductory courses towards modern differential geometry with its various applications. Presentation of the material is leisurely paced — as befits pedestrian learners. Chapters are self contained and equations in the text are fully explained without obscure and annoying gaps. The book is richly supplemented by many examples and detailed problems and solutions at the end of each chapter. All in all, the book will enable a beginner or an intermediate learner to explore and appreciate the beauty of the fundamental concepts presented.

Readership: Undergraduates of mathematics and engineering disciplines. Also physics undergraduates, especially those interested in particle physics and quantum fields, continuum physics, astrophysics and other disciplines of physics requiring differential geometry.

500pp Jun 2025
 978-981-9811-62-5 US\$148 £135
 978-981-9811-63-2(ebook) US\$237 £220

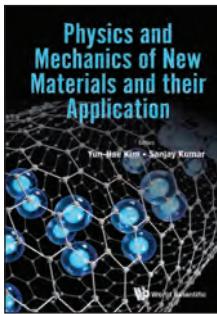
PHYSICS AND MECHANICS OF NEW MATERIALS AND THEIR APPLICATION

edited by **Yun-Hae Kim** (National Korea Maritime and Ocean University, Korea) & **Sanjay Kumar** (National Korea Maritime and Ocean University, Korea)

This book explores new materials, composites, and devices, examining the physics and mechanics behind them, as well as processing techniques and applications. The research presented in this book aims to enhance material characteristics through chemical, physical, and mechanical studies.

Readership: Researchers, academics, and graduate students in materials science and related fields. Also, industry professionals in manufacturing and engineering sectors would benefit from this book.

256pp **Jan 2025**
978-981-9807-71-0 US\$88 £80
978-981-9807-72-7(ebook) US\$141 £130



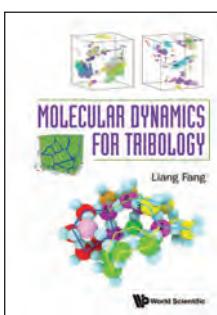
MOLECULAR DYNAMICS FOR TRIBOLOGY

by **Liang Fang** (Xiamen University, Tan Kah Kee College, China)

This comprehensive book employs molecular dynamics simulation methods to systematically discuss nanoscale friction and wear issues in the fields of micro-equipment and micro-manufacturing. It utilizes the LAMMPS large-scale parallel software for simulation calculations, and discusses dislocation theory, phase transformation theory, and phase field methods.

Readership: Researchers, professionals, academics and graduate students in tribology, mechanical engineering, computational nanoscience and MEMS/NEMS.

380pp **Sep 2025**
978-981-9812-94-3 US\$128 £120
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AN INTRODUCTION TO INTERFACES AND COLLOIDS

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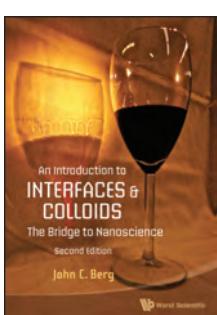
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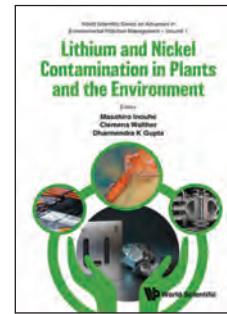
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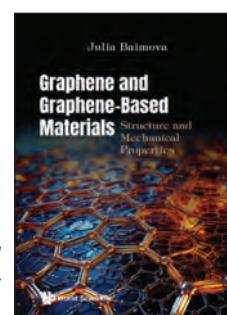
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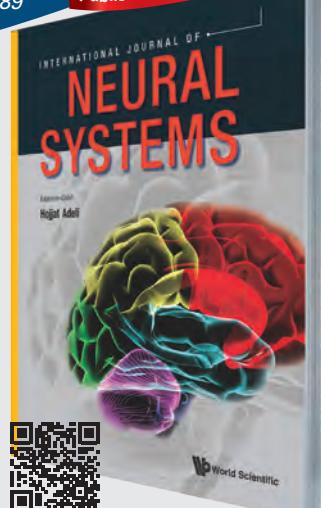


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Igor Aleksander, Imperial College of London, Nature

Hojjat Adeli received his Ph.D. from Stanford University in 1976 at the age of 26. He is an Academy Professor at The Ohio State University where he held the Abba G. Lichtenstein Professorship for ten years. He has authored over 650 research and scientific publications in various fields of computer science, engineering, applied mathematics, and medicine, including 16 ground-breaking high-technology books, and holds a United States patent in the area of design optimization. He is the recipient of 76 awards and honors including eight Honorary Doctorates and several Honorary Professorships at European and Asian Universities. In 1998 he received the *Distinguished Scholar Award*, The Ohio State University's highest research award “in recognition of extraordinary accomplishment in research and scholarship”.

INTERNATIONAL JOURNAL OF MODELING, SIMULATION, AND SCIENTIFIC COMPUTING (IJMSSC)***IMPACT FACTOR: 1.0****Editors-in-Chief: Lin Zhang (Beihang Univ. (BUAA), China)**
Co-Editor-in-Chief: Agostino Bruzzone (Genoa Univ, Italy)

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, electrodynamics, 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.

**INTERNATIONAL JOURNAL OF HUMANOID ROBOTICS (IJHR)**<https://www.worldscientific.com/ijhr>***IMPACT FACTOR: 1.6****Editors-in-Chief****Ming Xie** (Nanyang Technological University, Singapore),
Juyang (John) Weng (Brain-Mind Institute, USA) & **Aleš Ude** (Jožef Stefan Institute, Slovenia)**Check out the
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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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JOURNAL OF MEDICAL ROBOTICS RESEARCH (JMRR)<https://www.worldscientific.com/jmrr>**Editor-in-Chief: Jaydev P. Desai**
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Medical robotics has been progressively revolutionizing treatment for at least the past two decades. The *Journal of Medical Robotics Research (JMRR)* invites fundamental contributions to all areas of medical robotics including clinical evaluation studies. The journal is primarily aimed towards bringing the scientific and technological developments as well as clinical evaluation studies in the area of medical robotics to a wider robotics and clinical audience.

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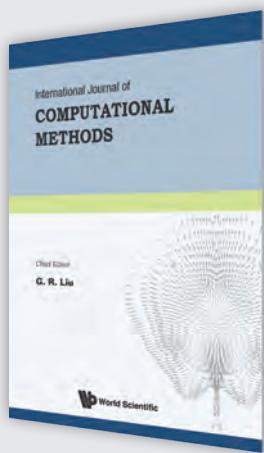
***IMPACT FACTOR: 1.6**

Chief Editor: G R Liu (*University of Cincinnati, USA*)

The purpose of this journal is to provide a unique forum for the fast publication and rapid dissemination of original research results and innovative ideas on the state-of-the-art on computational methods. The methods should be innovative and of high scholarly, academic and practical value.

The journal is devoted to all aspects of modern computational methods and the articles can involve theory, algorithm, programming, coding, numerical simulation and/or novel application of computational techniques to problems in engineering, science, and other disciplines related to computations. The journal places a great emphasis on creativity, novelty and innovation of computational methods. It aims to become the major platform that archives the history of the technical development of new generations of computational methods.

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UNMANNED SYSTEMS (US)

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***IMPACT FACTOR: 2.4**

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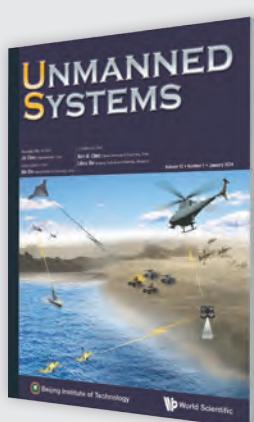
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Unmanned Systems (US) aims to cover all subjects related to the development of automatic machine systems, which include advanced technologies in unmanned hardware platforms (aerial, ground, underwater and unconventional platforms), unmanned software systems, energy systems, modeling and control, communications systems, computer vision systems, sensing and information processing, navigation and path planning, computing, information fusion, multi-agent systems, mission management, machine intelligence, artificial intelligence, and innovative application case studies.



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GUIDANCE, NAVIGATION AND CONTROL (GNC)

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 Open Access

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

***IMPACT FACTOR: 4.1**

Guidance, Navigation and Control (GNC) will report on advances in the understanding and utilization of guidance, navigation and control theories, technologies and systems. The journal serves as a platform for academic exchange by experts, scholars and researchers in these fields. The following subjects are of particular interest to the journal:

- Modeling, analysis and design of dynamics, control and guidance systems
- Stability, optimization, electronics, avionics, and information processing related to various vehicle systems (marine, ground, aeronautical, and astronautical systems)
- Theoretical and empirical research in guidance, navigation and control technologies
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INTERNATIONAL JOURNAL OF STRUCTURAL STABILITY AND DYNAMICS (IJSSD)

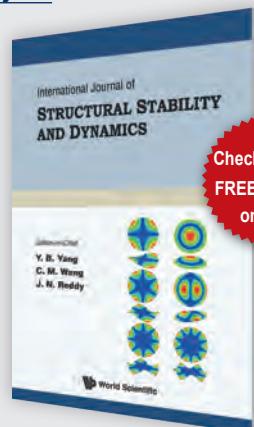
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***IMPACT FACTOR: 3.4**

Editors-in-Chief: Y B Yang
(*Chongqing University, China*),
C M Wang (*The University of Queensland, Australia*) &
J N Reddy (*Texas A&M University, USA*)

The aim of this journal is to provide a unique forum for the publication and rapid dissemination of original research on stability and dynamics of structures. Papers that deal with conventional land-based structures, aerospace structures, marine structures, as well as biostructures and micro- and nano-structures are considered. Papers devoted to all aspects of structural stability and dynamics (both transient and vibration response), ranging from mathematical formulations, novel methods of solutions, to experimental investigations and practical applications in civil, mechanical, aerospace, marine, bio- and nano-engineering will be published.



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JOURNAL OF MULTISCALE MODELLING (JMM)

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

***IMPACT FACTOR: 0.9**

Editor-in-Chief: M H Aliabadi
(Imperial College London, UK)

Multiscale Modelling is a relatively new research field which has in a short time had a significant impact on many scientific and engineering disciplines including material science, fluid dynamics, chemistry, and biology. In these areas problems are often multiphysics and have important features at multiple scales, particularly multiple spatial scales. *Multiscale Modelling* is an international peer-reviewed journal that presents forefront fundamental works in the above field of research. It features timely scientific reports of advances in modelling and computation, theoretical breakthroughs and also contains interesting review articles about emerging issues. *Multiscale Modelling* provides a common platform for exchange of views and presentation of original papers (theoretical, computational and experimental) with a general emphasis on Multiscale issues in this rapidly developing field. Papers reporting advancement of the theory and applications of single scale problems (i.e. Nano, Micro, etc.) which pave the way for multiscale implementation are also appropriate for the journal.

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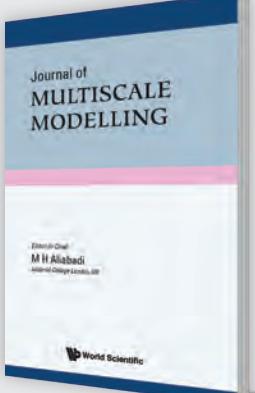
Allan D. Pierce (Cape Cod Institute for Science and Engineering, USA)

Co-Editors-in-Chief:

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The aims of this journal are to provide an international forum for disseminating state-of-the-art information in the fields of Theoretical and Computational Acoustics. Topics covered by this journal include research and tutorial contributions in OCEAN ACOUSTICS (a subject of active research in relation with sonar detection and the design of noiseless ships), SEISMO-ACOUSTICS (of concern to earthquake science and engineering, and also to those doing underground prospection like searching for petroleum), AEROACOUSTICS (which includes the analysis of noise created by aircraft), COMPUTATIONAL METHODS, and SUPERCOMPUTING. In addition to the traditional issues and problems in computational methods, the journal also considers theoretical research acoustics papers which lead to large-scale scientific computations.



INTERNATIONAL JOURNAL OF APPLIED MECHANICS (IJAM)

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***IMPACT FACTOR: 2.6**

Editors-in-Chief: Zishun LIU
& Tiejun WANG (Xi'an Jiaotong University, China)

The journal has as its objective the publication and wide electronic dissemination of innovative and consequential research in applied mechanics. IJAM welcomes high-quality original research papers in all aspects of applied mechanics from contributors throughout the world. The journal aims to promote the international exchange of new knowledge and recent development information in all aspects of applied mechanics. In addition to covering the classical branches of applied mechanics, namely solid mechanics, fluid mechanics, thermodynamics, and material science, the journal also encourages contributions from newly emerging areas such as biomechanics, electromechanics, the mechanical behavior of advanced materials, nanomechanics, and many other inter-disciplinary research areas in which the concepts of applied mechanics are extensively applied and developed. It explores analytical, computational and experimental progresses in all the above mentioned areas. Types of papers accepted include:

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The scope of this journal encompasses experimental, computational, and theoretical aspects of ocean and coastal engineering, as well as closely-related subjects and meaningful applications, whose composition will evolve continuously to respond to emerging new areas and directions in modern science, engineering and technology.



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INTERNATIONAL JOURNAL OF RELIABILITY, QUALITY AND SAFETY ENGINEERING (IJRQSE)

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***IMPACT FACTOR: 0.9**

Editor-in-Chief: Hoang Pham
(Rutgers University, USA)

IJRQSE is a refereed journal focusing on both the theoretical and practical aspects of reliability, quality, and safety in engineering. The journal is intended to cover a broad spectrum of issues in manufacturing, computing, software, aerospace, control, nuclear systems, power systems, communication systems, and electronics. Papers are sought in the theoretical domain as well as in such practical fields as industry and laboratory research. The journal is published six issues per year. It is intended to bridge the gap between the theoretical experts and practitioners in the academic, scientific, government, and business communities. Review articles and case studies are also welcome in addition to innovative works in all key areas of the journal.

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BIOMEDICAL ENGINEERING: APPLICATIONS, BASIS AND COMMUNICATIONS (BME)

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



Editor-in-Chief: Lu, Tung-Wu
(National Taiwan University, Taiwan)

Editor-in-Honor: Wang, Cheng-Yi
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This international, interdisciplinary journal aiming at publishing up-to-date contributions on original clinical and basic research in the biomedical engineering. Research of biomedical engineering has grown tremendously in the past few decades. Meanwhile, several outstanding journals in the field have emerged, with different emphases and objectives. We hope this journal will serve as a new forum for both scientists and clinicians to share their ideas and the results of their studies.

Biomedical Engineering: Applications, Basis and Communications explores all facets of biomedical engineering, with emphasis on both the clinical and scientific aspects of the study. It covers the fields of bioelectronics, biomaterials, biomechanics, bioinformatics, nanobiological sciences and clinical engineering.

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JOURNAL OF ADVANCED MANUFACTURING SYSTEMS (JAMS)

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***IMPACT FACTOR: 1.1**

Editor-in-Chief: Dr V K Jain (Prof Retired)
(Indian Institute of Technology Kanpur, India)

This journal publishes original papers pertaining to the state-of-the-art research and development, product development, process planning, resource planning, applications and tools in the areas related to advanced manufacturing including advanced manufacturing technologies.

The journal addresses: Manufacturing Systems, Collaborative Design, Collaborative Decision Making, Product Simulation, In-Process Modeling, Resource Planning, Resource Simulation, Tooling Design, Planning and Scheduling, Virtual Reality Technologies and Applications, CAD/CAE/CAM Systems, Networking and Distribution, Supply Chain Management, Advanced Manufacturing Technologies.

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Editor-in-Chief: Kun Zhou

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Smart Manufacturing is a peer-reviewed journal that provides academia and industry with high-quality research papers and reviews on advanced intelligent manufacturing. This journal aims to boost the integration of advanced manufacturing systems and digital information for high production efficiency, adaptability, and sustainability, using cutting-edge technologies in digital manufacturing, automated and robotic systems, artificial intelligence, online monitoring, cyber-physical systems, big data, Internet of Things (IoT), cloud computing, sociotechnology, etc.



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Smart Manufacturing focuses on state-of-the-art manufacturing and its integration with enabling technologies in the implementation of intelligent manufacturing. The journal covers a broad scope, comprising smart and functional materials (material development), smart design (structure design and optimization), smart manufacturing (advanced manufacturing process development, digital twin, etc.), and smart factories (supply chain). Topics of particular interest include, but are not limited to, (1) 3D/4D printing, (2) digital manufacturing, (3) nature-inspired materials and manufacturing, (4) micro-/nanomaterials and manufacturing, (5) IoT for manufacturing, (6) cyber security for manufacturing, (7) adaptive and reconfigurable manufacturing, (8) green and sustainable materials and manufacturing, and (9) design methodologies for smart and functional materials and manufacturing.

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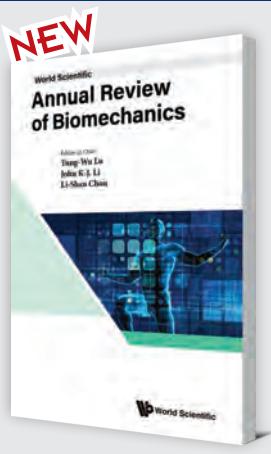
Editors-in-Chief: Tung-Wu Lu (National Taiwan University, Taiwan), John K-J. Li (Rutgers University, USA) & Li-Shan Chou (Iowa State University, USA)

This journal provides a forum for focused reviews on specific topics, recent advances, historical perspectives, brief reviews and controversies. Contributions from the scientific, research, clinical and product development communities of those interested in Biomechanics are welcome.

This journal covers biomechanics of all levels of biological systems, from cells, tissues, organs to systems, such as cardiovascular and respiratory, neural, muscular and skeletal systems, and from

fundamental mechanisms to translational and clinical applications such as biofluids, orthopedics, prosthesis and implants, rehabilitation, prosthetics and orthotics, sports injuries and performance, and medical devices. Theoretical, modeling and experimental methodologies are included.

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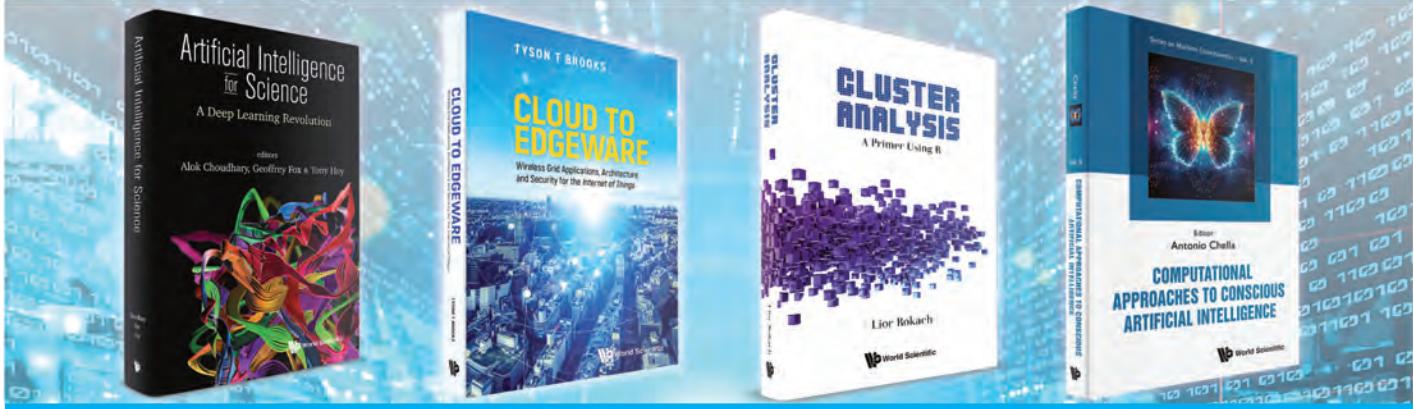


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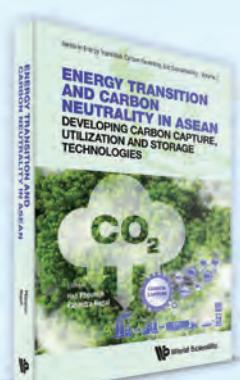
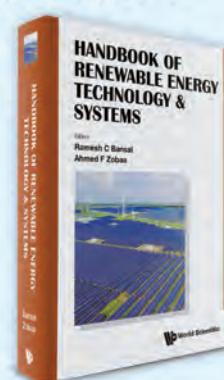
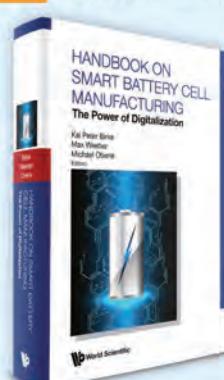
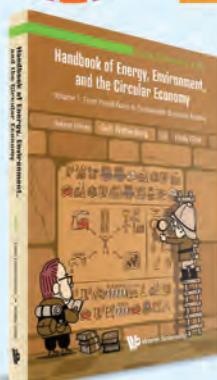
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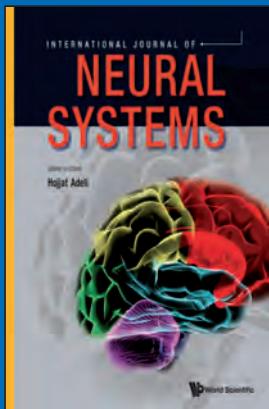
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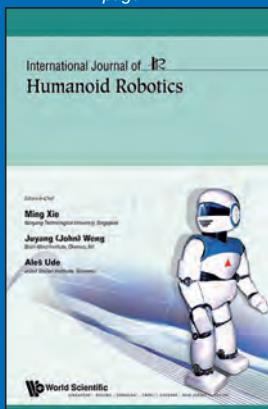
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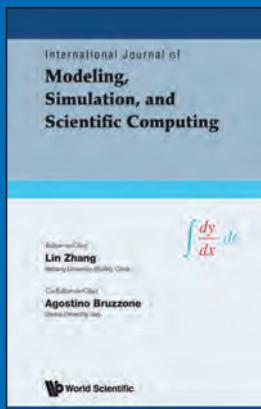
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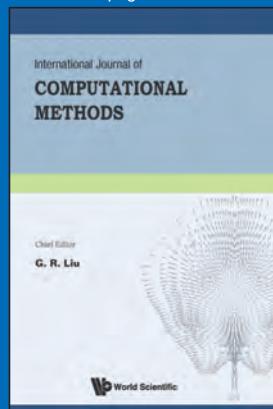
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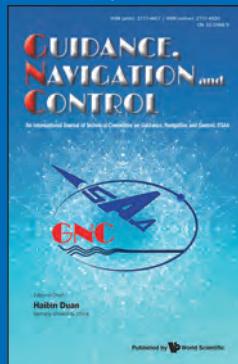
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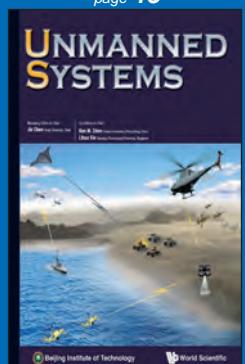
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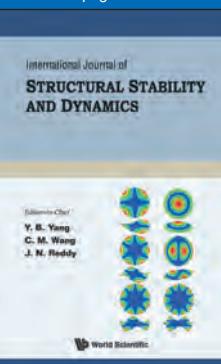
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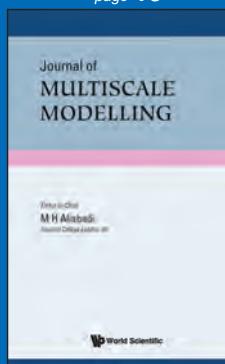
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page 15



page 16



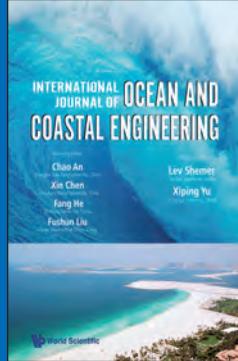
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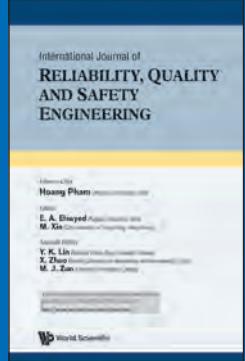
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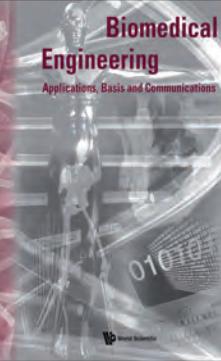
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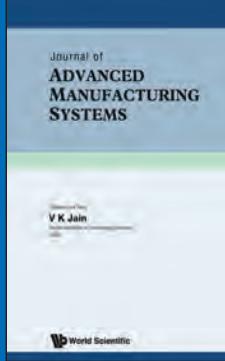
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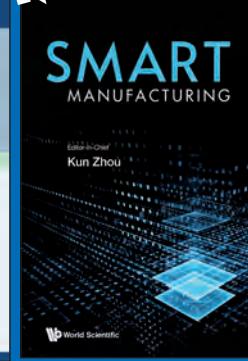
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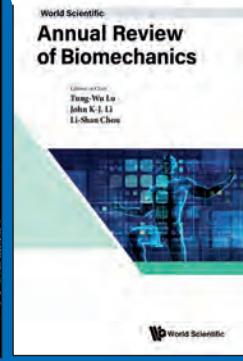
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