

Civil Engineering

2026



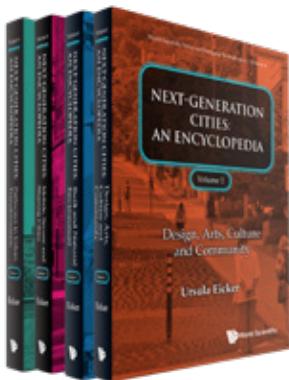
AVAILABLE IN PRINT AND DIGITAL



Highlights

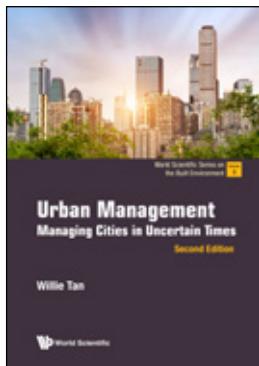
Civil Engineering Catalogue 2026

page 4



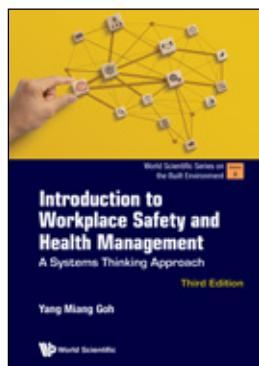
Editor-in-chief: **Ursula Eicker**
(Concordia University, Canada)

page 4



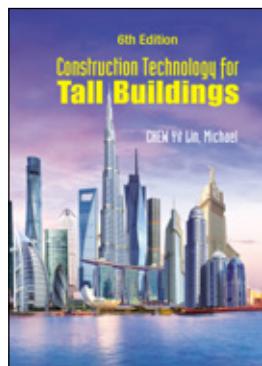
by **Willie Tan**
(National University of Singapore)

page 4



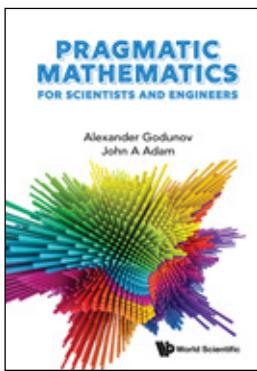
by **Yang Miang Goh**
(National University of Singapore, Singapore)

page 4



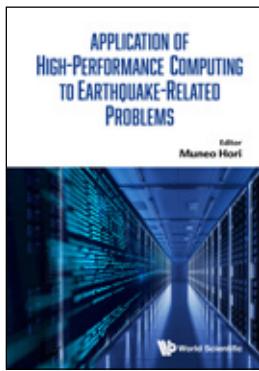
by **Chew Yit Lin, Michael**
(National University of Singapore, Singapore)

page 4



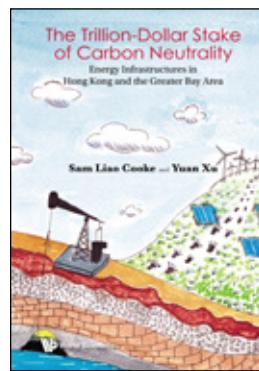
by **Alexander Godunov & John A Adam**
(Old Dominion University, USA)

page 5



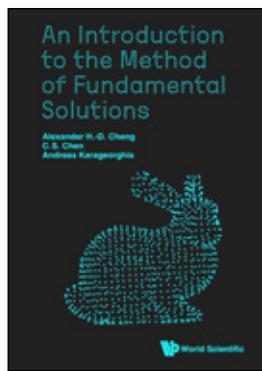
edited by **Muneo Hori**
(Japan Agency for Marine-Earth Science and Technology, Japan)

page 6



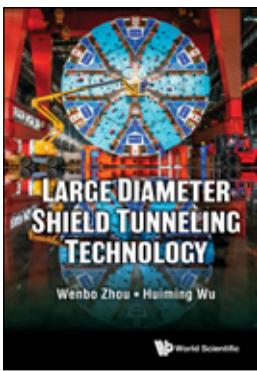
by **Sam Liao Cooke**
(The Chinese University of Hong Kong, Hong Kong) &
Yuan Xu
(The Chinese University of Hong Kong, Hong Kong)

page 6



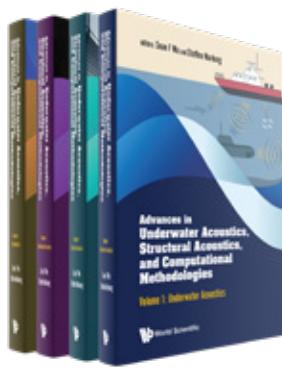
by **Alexander H-D Cheng**
(University of Mississippi, USA), **Ching-Shyang Chen**
(University of Southern Mississippi, USA) &
Andreas Karageorghis
(University of Cyprus, Cyprus)

page 7



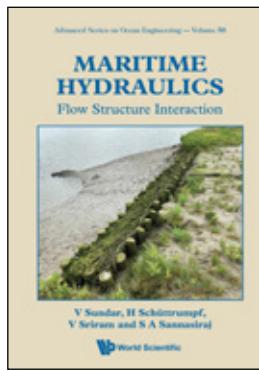
by **Wenbo Zhou**
(Shanghai Tunnel Engineering Co., Ltd., China) &
Huiming Wu
(Shanghai Tunnel Engineering Co., Ltd., China)

page 7



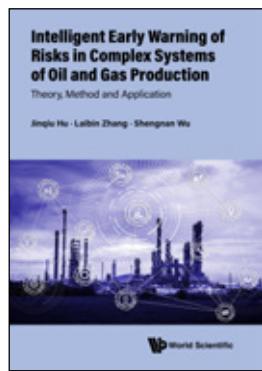
edited by
Sean F Wu (Wayne State University, USA) &
Steffen Marburg (Technical University of Munich, Germany)

page 8



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

page 8



by **Jinqiu Hu**
(China University of Petroleum-Beijing, China), **Laibin Zhang** (China University of Petroleum-Beijing, China) & **Shengnan Wu** (China University of Petroleum-Beijing, China)

About World Scientific Publishing

World Scientific Publishing is a leading independent publisher of books and journals for the scholarly, research, professional and educational communities. The company publishes about 600 books annually and over 180 journals in various fields. World Scientific collaborates with prestigious organisations like the Nobel Foundation & US National Academies Press, amongst others, to bring high quality academic and professional content to researchers and academics worldwide. To find out more about World Scientific, visit www.worldscientific.com

How to Order

Please contact our representatives and the World Scientific office nearest to you.



You can also order online at www.worldscientific.com or from your regular bookseller.

Textbook Inspection Copies

These are available upon request to lecturers for textbook adoption purposes. Please email us at sales@wspc.com or visit our website at www.worldscientific.com/page/inspection-copy

**Interested in Writing a Book?**

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

**Other Catalogues**

We have produced these catalogues for the year 2026. Please email us at mkt@wspc.com to request for any of them.

- Asian Studies
- Business and Management
- Chemistry
- Computer Science
- Earth, Energy and Environmental Science
- Economics and Finance
- Electrical and Electronics Engineering
- Life Sciences
- Mathematics
- Materials Science and Nanoscience
- Mechanical Engineering
- Medical Sciences
- Nonlinear Science
- Physics
- Popular Science

**Stay Updated**

Join our Mailing List to be informed of our latest publications, worldwide conferences, special offers on our books and journals, and much more!



To join, visit

<https://wspc-newsletters.com/subscribe-iframe.php>

Or email your contact information to us at mkt@wspc.com with "Civil Engineering" in the subject line.

**CONTENTS**

4	Sustainability, Architecture, Building Management and Construction
4	Analysis and Applications in Civil Engineering
7	Coastal / Ocean / Petroleum / Earthquake Engineering
9	Transport / Traffic Engineering
10-13	Journals
14	Bestselling Backlist for Engineering
14	Proceedings
16	Contact



Join over 500,000 subscribers who receive our email newsletters.

Get alerted about:

- Subscriber Discount
- New and forthcoming publications
- Free online chapters
- New book reviews
- Podcasts and videos of author interviews
- Useful tips in research

Sign up now @

<https://wspc-newsletters.com/subscribe-iframe.php>

Sustainability, Architecture, Building Management and Construction

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

NEXT-GENERATION CITIES: AN ENCYCLOPEDIA

(In 4 Volumes)

Volume 1: Design, Arts, Culture and Community
Volume 2: Built and Natural Environment
Volume 3: Mobile, Secure and Sharing Cities
Volume 4: Pathways to Urban Transformation
Editor-in-chief: Ursula Eicker (Concordia University, Canada)

Next-Generation Cities: An Encyclopedia is a curated collection of expert papers and represents the backbone of the work of the Next-Generation Cities Institute at Concordia University in Montréal, Canada. In an interdisciplinary framework, it reflects the collaborative approach necessary to solve complex urban issues. A new model of city building brings together the best practices of many professions and interest groups. The Encyclopedia compiles public and private sector experts, professors, and graduate student contributions in four volumes. It considers the different perspectives, objectives, methodologies, and guidelines for transforming today's cities into inclusive, human-centred, livable, culturally vibrant, resilient and sustainable human settlements.

Readership: Policy-makers, researchers and professionals in urban/town planning, architecture, municipal and state governance, infrastructure, and civil engineering.

1200pp	Oct 2026
978-981-128-950-7(Set)	US\$1088
978-981-128-944-6(Set)(ebook)	US\$2048

World Scientific Series on the Built Environment

URBAN MANAGEMENT

Managing Cities in Uncertain Times
2nd Edition

by Willie Tan (National University of Singapore, Singapore)

In this second edition, the chapters have been reorganized, revised, and expanded to include many case studies. There are new chapters on capital investment programs and asset management. The latter contains many topics on asset management, including strategic asset management, asset-light business models, maintenance principles and technologies, and the use of more recent technologies such as drones, Lidar, and satellite radar systems to monitor asset conditions and respond to emergencies.

Readership: Practitioners and students in the built environment, including mayors, urban managers, urban planners, developers, lenders, insurers, architects, engineers, project managers, and other consultants, contractors, and suppliers.

280pp	Dec 2025
978-981-9807-11-6(pbk)	US\$58
978-981-9805-85-3	US\$108
978-981-9805-86-0(ebook)	US\$173



World Scientific Series on the Built Environment - Vol 8

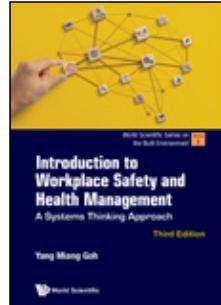
INTRODUCTION TO WORKPLACE SAFETY AND HEALTH MANAGEMENT

A Systems Thinking Approach (3rd Edition)
by Yang Miang Goh (National University of Singapore, Singapore)

This book takes a systems-thinking approach to allow readers to understand how WSH is an integral part of any organisation. The different chapters are strung together by an overarching model of incident causation and underpinning models are presented to allow a strong conceptual foundation. This edition brings all ten of the book's chapters up to date with current-day best practices, WSH guidelines, and approved codes of practice. A series of online quizzes are available to readers to help them to reinforce the concepts of each chapter.

Readership: Professionals and students (undergraduate and above) concerned with or studying workplace safety and the management of worker and overall workplace health.

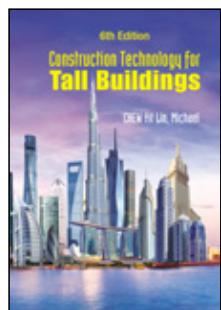
380pp	Sep 2024
978-981-129-006-0(pbk)	US\$78
978-981-129-001-5	US\$118
978-981-129-002-2(ebook)	US\$189



CONSTRUCTION TECHNOLOGY FOR TALL BUILDINGS

6th Edition
by Michael Yit Lin Chew
(National University of Singapore, Singapore)

In this 6th edition, the text and illustrations of every chapter are thoroughly revised to present the latest technologies, methodologies, and processes for the construction of tall buildings, from foundation, basement, and superstructure to roof. Contemporary sustainability concerns, as well as the latest regulations and standards, are highlighted.



Readership: Undergraduate students and practitioners in architecture, civil engineering, building, real estate and urban planning.

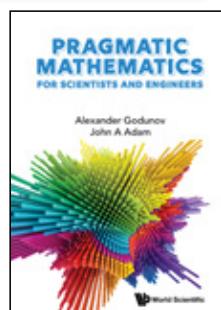
480pp	Nov 2024
978-981-129-392-4(pbk)	US\$98
978-981-129-437-2	US\$158
978-981-129-393-1(ebook)	US\$253

Analysis and Applications in Civil Engineering

PRAGMATIC MATHEMATICS FOR SCIENTISTS AND ENGINEERS

by Alexander Godunov & John A Adam
(Old Dominion University, USA)

This is a textbook on basic to intermediate mathematics for undergraduate students majoring in the physical sciences and engineering. Many chapters, covering topics like Green's functions, calculus of variations, and functions of a complex variable, are well-suited for graduate classes. Additionally, researchers can benefit from the book as a mathematical refresher for their professional work.



Readership: Advanced undergraduate and graduate students majoring in science and engineering; researchers in science and engineering looking to refresh their mathematical knowledge for practical applications.

484pp	Sep 2024
978-981-129-133-3	US\$158
978-981-129-134-0(ebook)	US\$253

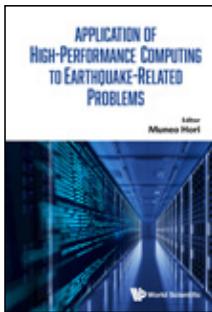
APPLICATION OF HIGH-PERFORMANCE COMPUTING TO EARTHQUAKE-RELATED PROBLEMS

edited by **Muneo Hori** (*Japan Agency for Marine-Earth Science and Technology, Japan*)

This major reference work summarizes the theories, analysis methods, and computational results of various earthquake simulations by the use of supercomputers. It covers simulations in the fields of seismology, physical geology, earthquake engineering — specifically the seismic response of structures — and the socioeconomic impact of post-earthquake recovery on cities and societies.

Readership: Researchers in the fields of earth sciences, earthquake engineering, disaster-related social science; Advanced undergraduate and graduate students in the fields of earth sciences, earthquake engineering, disaster-related social science.

648pp Jul 2024
978-1-80061-462-8 US\$178 £165
978-1-80061-463-5(ebook) US\$285 £260



INTRODUCTION TO EMERGING FIELDS IN MATERIALS SUSTAINABILITY

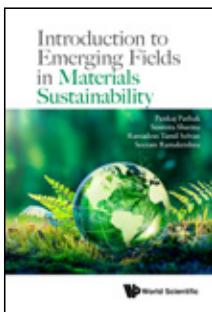
by **Pankaj Pathak** (*SRM University Andhra Pradesh, India*), **Susmita Sharma** (*National Institute of Technology Meghalaya, India*), **Ramadoss Tamil Selvan** (*National University of Singapore, Singapore*) & **Seeram Ramakrishna** (*National University of Singapore, Singapore*)

"This excellent new book covers important concepts of sustainability focusing on materials and their waste streams. The impressive team of authors use their insight to explore water management, food, waste management, plastics, electronics, and construction sectors, complementing this with a general introduction to the basic concepts of sustainability and the role of different materials."

Paul Hogg
Professor, Royal Holloway University of London, UK

Readership: Undergraduate and graduate students enrolled in Environmental Science/Chemistry/Economics/Engineering, Material Science, Engineering and Business School. Emerging entrepreneurs, academics/researchers, industry professionals, and companies working on sustainable development and/or waste management will also be interested.

200pp Feb 2026
978-981-124-764-4 US\$78 £70
978-981-124-765-1(ebook) US\$125 £115



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*)

This unique compendium introduces FEM (Finite Element Methods) as a general numerical technique for the solution of various engineering problems. 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.

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

300pp Dec 2026
978-981-121-904-7 US\$118 £110
978-981-121-905-4(ebook) US\$189 £175

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*)

Written by DFSS practitioners and technologists, this book is intended for any engineer to use as a reference in executing DFSS projects.

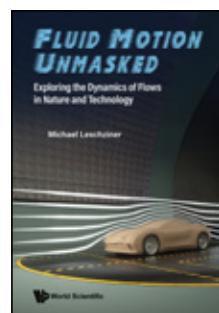
- IDOV process for DFSS
- Inventive Design methods
- Numerical and CAE tools
- Step by step procedures
- Examples and case studies

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

500pp Jun 2026
978-981-256-063-6 US\$115 £105

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.

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 the Built Environment - Volume 9

ASSET MANAGEMENT IN UNCERTAIN TIMES

by **Freddie Tan** (*National University of Singapore, Singapore*)



This book cultivates a deeper awareness of the science and art of asset management amidst today's poly-crisis environment.

Drawing from the author's three decades of experience as a corporate journeyman, this work is written to inspire readers by offering insights from the perspective of an industry insider, leveraging practical, general principles that are adaptable across various countries and requirements.

At its core, the practice of asset management in uncertain times requires agility in addressing complex issues. There is no single formula for achieving success or winning trust in asset management. To this, the approach carries this guiding principle: Be robust, but do not overdo. Always strive to create value.

Readership: Researchers, professionals, academics and graduate students in building management and money & banking/investments.

220pp Jun 2025
978-981-98-1636-1 US\$88 £80
978-981-98-1761-0(pbk) US\$48 £45
978-981-98-1637-8(ebook) US\$141 £130

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

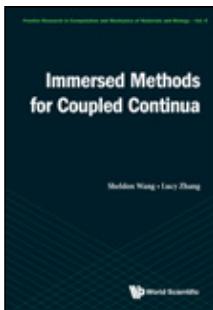
IMMERSED METHODS FOR COUPLED CONTINUA

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 Aug 2025
 978-981-3234-50-5 US\$138 £125
 978-981-3234-51-2(ebook) US\$221 £205



THE SELECTED WORKS OF RODERICK S C WONG

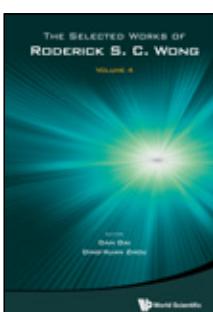
Volume 4

edited by Dan Dai (City University of Hong Kong, Hong Kong) & Ding-Xuan Zhou (The University of Sydney, Australia)

This book provides a unique viewpoint of many important topics of applied mathematics from deep analysis. Such a viewpoint is needed for a general reader to understand the spirit of applied analysis and its applications in various fields of science and engineering

Readership: Academics, researchers, post-graduate students, undergraduate students, mathematicians, physicists, engineers.

550pp Sep 2025
 978-981-129-085-5 US\$168 £155
 978-981-129-086-2(ebook) US\$269 £250



AN INTRODUCTION TO THE METHOD OF FUNDAMENTAL SOLUTIONS

by Alexander H-D Cheng (University of Mississippi, USA), Ching-Shyang Chen (University of Southern Mississippi, USA) & Andreas Karageorghis (University of Cyprus, Cyprus)

This book consists of two parts. Part I aims to provide theoretical support for beginners. In the spirit of reproducible research and to facilitate the understanding of the method and its implementation, several MATLAB codes have been included in Part II.

Readership: Numerical modelers, researchers in scientific computing for science and engineering, and numerical methods for partial differential equations. Design engineers, graduate students in applied mathematics and engineering, academic faculty and researchers in numerical methods.

616pp Mar 2025
 978-981-129-847-9 US\$178 £165
 978-981-129-848-6(ebook) US\$237 £220



MATHEMATICS FOR ENGINEERS

Volume 2: Integral Calculus, Taylor and Fourier Series, Calculus for Multivariable Functions, 1st Order Differential Equations, Laplace Transform

by Thomas Westermann (University of Applied Sciences Karlsruhe, Germany)

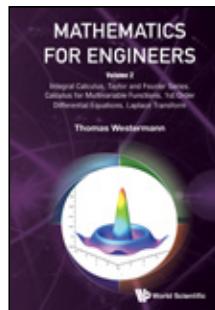
This second volume in our series is intended primarily as a companion text for the second semester mathematics preliminaries for students and lecturers of electrical engineering and other engineering disciplines.

In a clear and concise manner, and without too much abstraction, it introduces students to the topics covered in the basic mathematics lectures. Volume 2 also provides students at universities and applied universities with a largely accurate, but always illustrative, presentation as a practical aid to entry into higher mathematics.

Mathematical concepts are clearly motivated, systematically equated and visualized in many animations. Mathematical proofs are almost completely avoided. Instead, many applications not only support the application of mathematics, but also contribute to a better understanding of mathematics.

Readership: Undergraduate students of a technical discipline, students of engineering disciplines, lecturers for basic mathematics.

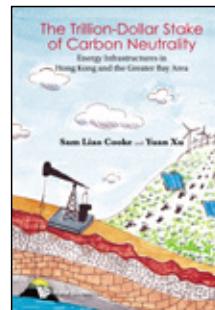
320pp Dec 2024
 978-981-9800-78-0(pbk) US\$48 £45
 978-981-129-921-6 US\$98 £90
 978-981-129-922-3(ebook) US\$157 £145



THE TRILLION-DOLLAR STAKE OF CARBON NEUTRALITY

Energy Infrastructures in Hong Kong and the Greater Bay Area

by Sam Liao Cooke (The Chinese University of Hong Kong, Hong Kong) & Yuan Xu (The Chinese University of Hong Kong, Hong Kong)



The world has been witnessing an accelerating momentum toward carbon neutrality, with almost all major countries onboard. The stakes are extremely high with over US\$100 trillion in investments needed to achieve net zero emissions. This book delves into this intricate multi-trillion-dollar landscape of opportunities and challenges. The detailed, project-level examination in this book will provide direct insights for interested parties to position themselves.

Focusing on the Guangdong-Hong Kong-Macau Greater Bay Area (GBA), home to 86 million people and a 1.7 trillion economy, the narrative unfolds against the backdrop of China's commitment to carbon neutrality by 2060, as well as their respective positions next to the rest of the world in the race to carbon neutrality. For the GBA and Hong Kong, carbon neutrality corresponds to nearly a US1 trillion stake in energy infrastructures. This book meticulously dissects the trillion-dollar stake from the bottom-up.

Readership: Governments, policy-makers, businesses, and decision-makers interested in carbon neutrality.

208pp Jul 2024
 978-981-129-030-5 US\$68 £65
 978-981-129-031-2(ebook) US\$109 £100

World Scientific Connect

Gateway to your Digital Library

World Scientific Connect is your premier online platform for accessing cutting-edge research and insights. As a leading international publisher, World Scientific releases approximately **600** new books annually, adding to our extensive library of over 12,000 titles and 180 journals.

Our extensive digital library is currently accessible to over **45,000 universities, libraries, and organizations worldwide**, ensuring broad reach and impact.

Whether you're a researcher, student, or professional, World Scientific Connect is your go-to source for reliable and authoritative digital information.



e-Catalogues

www.worldscientific.com/page/ecatalogues

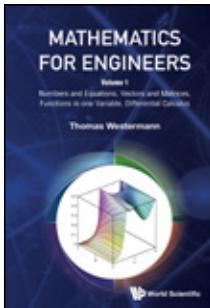
MATHEMATICS FOR ENGINEERS

Volume 1: Numbers and Equations, Vectors and Matrices, Functions in one Variable, Differential Calculus
by **Thomas Westermann** (University of Applied Sciences Karlsruhe, Germany)

Important formulas and statements are clearly highlighted in order to increase the readability of the books. More than 300 images and sketches support the character of modern textbooks. The color-coded layout provides a clear overview of the presentation of the content, e.g. by adding new terms and definitions in light grey, important statements and sentences in grey.

Readership: Undergraduate students of a technical discipline, students of engineering disciplines.

336pp	Jun 2024
978-981-129-278-1(pbk)	US\$58 £55
978-981-129-234-7	US\$128 £120
978-981-129-235-4(ebook)	US\$205 £190

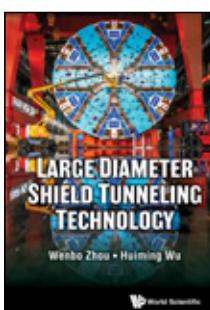


LARGE DIAMETER SHIELD TUNNELING TECHNOLOGY

by **Wenbo Zhou** (Shanghai Tunnel Engineering Co., Ltd., China) & **Huiming Wu** (Shanghai Tunnel Engineering Co., Ltd., China)

“As another brand-new business card in the field of engineering technology in China, the large-diameter shield tunneling has been widely promoted and applied, marking that China’s infrastructure construction capacity has leaped into the world’s advanced ranks.”

Mr Sun Jun, First Class Honorary Professor and Honorary Dean of the Department of Geotechnical Engineering of Tongji University Senior Academician of the Chinese Academy of Sciences (Division of Technological Sciences)



Readership: Professional technicians of design and construction units, researchers of scientific research institutes, civil engineers, and other industry professionals specialising in or dealing with tunnel and underground engineering or related fields.

524pp	Jun 2024
978-981-128-595-0	US\$168 £155
978-981-128-596-7(ebook)	US\$269 £250

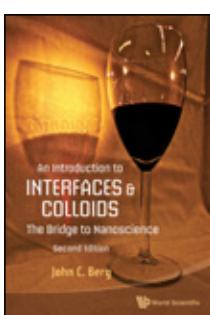
AN INTRODUCTION TO INTERFACES AND COLLOIDS

The Bridge to Nanoscience
2nd Edition
by **John C Berg** (University of Washington, USA)

Reviews of the First Edition:

“it serves as an excellent entry into the field, giving the student more than enough support to understand the concepts ... Anyone working in the area of colloids/interfaces should have a copy of this book. It makes an excellent reference book if you are an advanced practitioner and an excellent text if you are just getting started.”

Chemical Engineering Education



Readership: Senior undergraduate and graduate students in chemistry, physics, materials science, chemical engineering, civil engineering, mechanical engineering and related fields.

884pp	May 2024
978-981-128-640-7(pbk)	US\$78 £70
978-981-128-572-1	US\$198 £180
978-981-128-573-8(ebook)	US\$317 £290

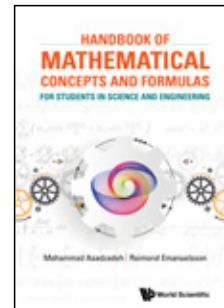
HANDBOOK OF MATHEMATICAL CONCEPTS AND FORMULAS FOR STUDENTS IN SCIENCE AND ENGINEERING

by **Mohammad Asadzadeh** (Chalmers University of Technology, Sweden) & **Reimond Emanusson** (Chalmers University of Technology, Sweden)

This book is a comprehensive collection of the main mathematical concepts, including definitions, theorems, tables, and formulas, that students of science and engineering will encounter in their studies and later careers. *Handbook of Mathematical Concepts and Formulas* introduces the latest mathematics in an easily accessible format. It familiarizes readers with key mathematical and logical reasoning, providing clear routes to approach questions and problems.

Readership: Students in Natural Science and Engineering Programmes at universities, instructors, professionals in industry.

668pp	Jan 2024
978-1-80061-331-7	US\$188 £175
978-1-80061-332-4(ebook)	US\$301 £275

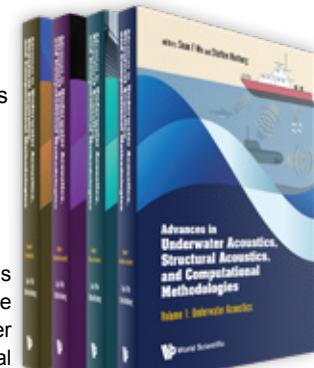


Coastal / Ocean / Petroleum / Earthquake Engineering

ADVANCES IN UNDERWATER ACOUSTICS, STRUCTURAL ACOUSTICS, AND COMPUTATIONAL METHODOLOGIES

(In 4 Volumes)

Volume 1: Underwater Acoustics
Volume 2: Structural Acoustics
Volume 3: Computational Acoustics
Volume 4: Aeroacoustics
edited by **Sean F Wu** (Wayne State University, USA) & **Steffen Marburg** (Technical University of Munich, Germany)



This set of volumes encompasses the study of acoustics to diverse environments ranging from underwater and marine environments, to structural and civil engineering, computational models and aerospace engineering. Each volume comprises peer-reviewed publications in the related field of acoustics from the past decade, arranged such as to review the existing literature, examine new methodologies and then explore novel applications of pioneering acoustic principles. With contributions by eminent acoustics researchers, this set holds key insights for fellow acoustics researchers and engineers of any field impacted by acoustic phenomena.

Readership: Practitioners and researchers specializing in the fields of acoustics and various fields of engineering including underwater/marine/ocean engineering, structural/civil engineering, computational modelling or aerospace engineering.

2400pp	Apr 2025
978-981-9809-70-7(Set)	US\$1180 £1085
978-981-9809-71-4(Set)(ebook)	US\$2368 £2180

WORLD SCIENTIFIC'S SCIENCE WRITING AND PROFESSIONAL DEVELOPMENT GUIDES

Including titles on science research writing, grant writing, science communication and professional development, this collection can support students and staff through every stage of their career.

For more details at [https://www.worldscientific.com](http://www.worldscientific.com)



COMBATING RED TIDES IN HARBORS

Research on Early Warning Index Systems and Emergency Treatment Technology for Red Tide Disasters
by Weidong Ji (Xiamen University, China), Cai Lin (Third Institute of Oceanography, China), Kuncan Xu (Third Institute of Oceanography, China), Baohong Chen (Third Institute of Oceanography, China), Guobiao Ji (Third Institute of Oceanography, China) & Yuanbiao Zhang (Third Institute of Oceanography, China)

This book proposes a system for emergency red tide monitoring for harbors derived from long-term toxic red tide tracking and early warning systems in Xiamen's seas. The work presents early warning and prevention recommendations that can be used by the marine management ministries and organisations for both early warning decision-making as well as emergency monitoring of harbor ocean red tide disasters.

Readership: Researchers and expert consultants for governments and policy makers on harbors in areas susceptible to red tide, and students specialising in marine ecology.

230pp Apr 2027
978-981-124-909-9 US\$88 £80
978-981-124-910-5(ebook) US\$141 £130

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

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)

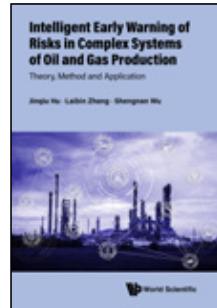
This unique compendium comprehensively covers several important topics related to the field of maritime hydraulics, particularly the underlying physics in the wave structure interaction with the coastal structures, coastal and inland flooding during extreme events in addition to perineal erosion. These 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

INTELLIGENT EARLY WARNING OF RISKS IN COMPLEX SYSTEMS OF OIL AND GAS PRODUCTION

Theory, Method and Application
by Jinqiu Hu (China University of Petroleum-Beijing, China), Laibin Zhang (China University of Petroleum-Beijing, China) & Shengnan Wu (China University of Petroleum-Beijing, China)



This book is a compilation of over a decade's worth of insights from the authors' research group on dynamic risk assessment and intelligent early warning systems. Highly technical approaches are provided to address the engineering requirements for the safe operation of complex systems in oil and gas production. These involve various methods and techniques using real-time process monitoring parameters, images, texts, and line-of-sight tracking technology to develop intelligent early warning systems to mitigate risks in complex oil and gas production systems. The book arms readers with practical safety management guidelines through the examination of real case applications for petroleum refining systems, unconventional oil and gas fracturing systems, and offshore oil and gas exploitation.

This book begins with a discussion of the main risk factors and features of oil and gas production systems, and reviews the state-of-art research and practice on the industry's existing early warning systems. Following this, different approaches of intelligent early-warning technology are developed based on various data sources including real-time monitoring of process parameters through shale gas fracturing construction; infrared thermal imaging video surveillance of oil and gas exploration equipment; text records on historical accidents and incidents; and operator eye movement data (for behavioral safety tracking). Lastly, this book discusses the practical applications of early risk warnings in shale gas fracturing systems, multi-level correlation early warning in refining and chemical plants, and early warnings for abnormal events in deepwater oil and gas exploitation.

Readership: This book is intended for graduate-level students and for researchers in safety and reliability since it involves the recent frontiers in safety and reliability engineering. This book can also benefit highly trained safety engineers in the oil and gas sectors, and even more widely in other industrial sectors since it provides supplementary practical field applications to clarify complex technical topics within each chapter.

400pp Jul 2025
978-981-9810-12-3 US\$138 £125
978-981-9810-13-0(ebook) US\$221 £205

WORLD SCIENTIFIC *the exclusive publisher of*
OVER 100 TITLES BY NOBEL LAUREATES
AND ON THE NOBEL PRIZES



[Browse the collection of books by Nobel Laureates](https://www.worldscientific.com/page/nobeltitles)
<https://www.worldscientific.com/page/nobeltitles>

 **World Scientific**
Connecting Great Minds



Sample Chapters
Offers a selection of titles with
sample chapters in Adobe PDF

Transport / Traffic Engineering

CHINA'S HIGH SPEED RAILWAY DEVELOPMENT

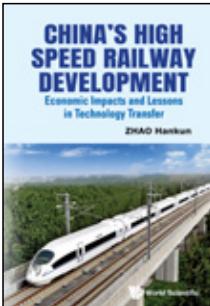
Economic Impacts and Lessons in Technology Transfer
by Hankun Zhao (Vision Holding Group, Singapore)

This book studies the impact of high-speed rail (HSR) network on regional development and the sustainability of China's GIUR (Government-Industry-University-Research) system. It aims to summarize the experiences of China's HSR, which can provide several policy guidelines for developing countries. The book expounds two key areas: (1) the impact of HSR network on the urban industrial structure, urban creativity and urban-rural income gap of cities in different regions and cities with heterogeneous locations along the HSR lines in the long and short term; (2) the advantages and disadvantages of the GIUR system as well as its adjustment in the technology-pioneering stage.

Finally, the book also discusses the policy implications of China's High Speed Rail Development.

Readership: For researchers and students who want to learn more about China's experiences with high speed rail development and the policy implications on economic development.

130pp Aug 2025
978-981-9805-67-9 US\$68 £65
978-981-9805-68-6(ebook) US\$109 £100



TRAFFIC FLOW MODELING AND SIMULATION

A Practical Approach
by Rahim (Ray) F Benekohal (University of Illinois Urbana-Champaign, USA)

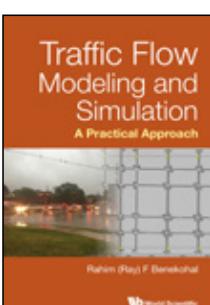
A dynamic traffic-roadway environment is a complex system and representing it requires techniques that are beyond the capabilities of simple analytical tools.

This authoritative book vividly describes the principles of traffic modeling and simulation. It also presents appropriate procedures to utilize modeling and simulation.

The useful reference text provides readers with the knowledge needed to properly simulate their traffic system and interpret the outcome of the simulation. It benefits researchers, professionals, academics and graduate students in the fields of civil engineering, transportation, and modeling and simulation.

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

300pp Aug 2026
978-981-128-730-5(pbk) US\$58 £55
978-981-128-677-3 US\$108 £100
978-981-128-678-0(ebook) US\$173 £160



World Scientific is a signatory of the SDG Publishers Compact

The SDG Publishers Compact is designed in collaboration with the International Publishers Association to accelerate progress to achieve the UN's Sustainable Development Goals (SDGs) by 2030.



<https://www.worldscientific.com/page/sustainable-development-goals>

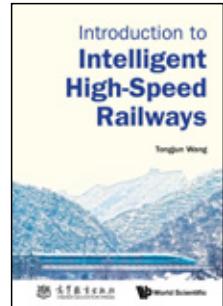
INTRODUCTION TO INTELLIGENT HIGH-SPEED RAILWAYS

by Tongjun Wang (China State Railway Group, China)

This book offers a comprehensive overview of China's Intelligent HSR architecture, management methods, and remarkable achievements. It showcases pioneering research from China State Railway Group Co., Ltd.; highlighting their remarkable achievements in designing and constructing the Beijing-Zhangjiakou High-Speed Rail — a project that has been highly praised by the world's leading railway organization, the Union of International Railways.

Readership: Graduate students, researchers and professionals specialising in rail transit design, construction and operation, and governments.

504pp Jan 2025
978-981-128-744-2 US\$158 £145
978-981-128-745-9(ebook) US\$253 £230



East China Normal University Scientific Reports - Vol 18

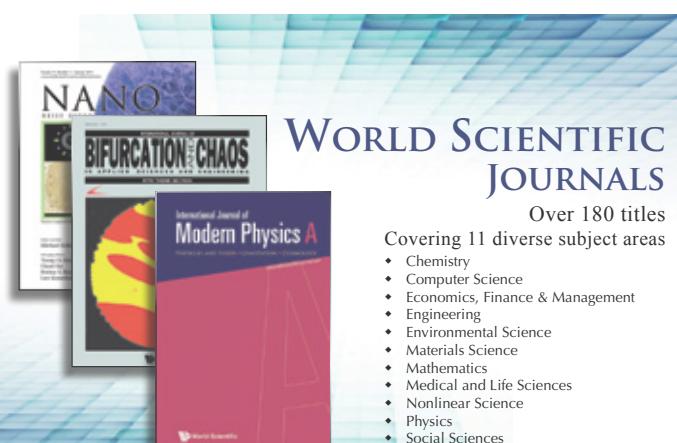
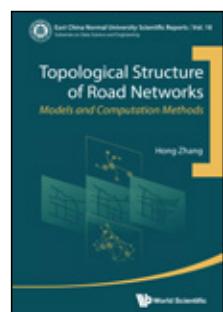
TOPOLOGICAL STRUCTURE OF ROAD NETWORKS

Models and Computation Methods
by Hong Zhang (East China Normal University, China)

This book presents the state-of-the-art in computational methods for modeling the topological structure of road networks. Each chapter focuses on a specific aspect of this topology and provides models, indicators, and empirical studies of road network structures. The book includes six types of structural models and three types of spatial simulation models to help understand the topological structural complexity of road networks. The appendices include several examples of road networks and their universal scale-free patterns.

Readership: Academics/researchers, industry/practitioner/clinician, government agencies, public libraries, and university departments.

284pp Nov 2024
978-981-129-425-9 US\$108 £100
978-981-129-426-6(ebook) US\$173 £160



WORLD SCIENTIFIC JOURNALS

Over 180 titles

Covering 11 diverse subject areas

- ◆ Chemistry
- ◆ Computer Science
- ◆ Economics, Finance & Management
- ◆ Engineering
- ◆ Environmental Science
- ◆ Materials Science
- ◆ Mathematics
- ◆ Medical and Life Sciences
- ◆ Nonlinear Science
- ◆ Physics
- ◆ Social Sciences

Register on [worldscientific.com](http://www.worldscientific.com) today

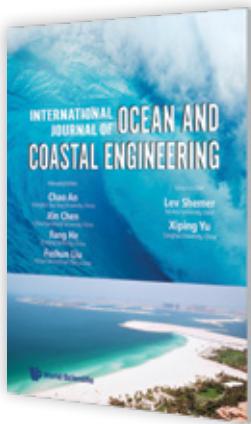
and check out the free contents available exclusively for registered users!

Submit your paper to these journals. Recommend them to your librarian!

For a **FREE** institutional trial or subscribe to these journals, please contact us at sales@wspc.com

INTERNATIONAL JOURNAL OF OCEAN AND COASTAL ENGINEERING (IJOCE)

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



ADVISOR
Philip L.-F. Liu
(Cornell University, USA)

EDITORS-IN-CHIEF

Lev Shemer (Tel Aviv University, Israel)
Xiping Yu (Tsinghua University, China)

AIMS & SCOPE

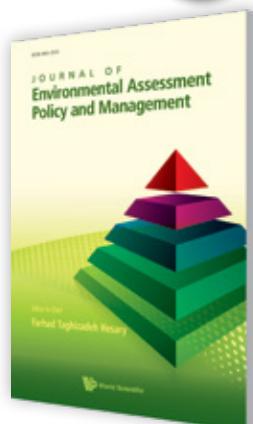
This international journal is a peer-reviewed medium for the publication of research achievements and engineering practices on all aspects of ocean and coastal engineering, including but not limited to wave dynamics and wind waves, tides and ocean currents, sea level changes, tsunamis and storm surges, nearshore sediment transport, coastal morphology, beach erosion, shore protection, ocean acoustics, remote sensing of ocean, marine exploration techniques, AUV/ROV, offshore platforms, submarine pipelines, seawalls and breakwaters, construction and design methods for offshore and coastal infrastructures, maintenance of navigation channels, dredging technology, harbor engineering, materials for marine structures, marine geotechnical engineering, estuarine processes, marine environmental problems, marine ecosystem dynamics, ocean energy development, coastal zone management, safety and amenity of coastal cities, etc.

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.

Abstracting/Indexing: Baidu | CNKI Scholar | CnpLINKer | CrossRef | Ebsco Discovery Service | EBSCO Electronic Journal Service (EJS) | ExLibris Primo Central | Google Scholar | J-Gate | Naver | NSTL - National Science and Technology Libraries | OCLC WorldCat® | Oceanic Abstracts (ProQuest) | ProQuest Civil Engineering Abstracts | ProQuest Environmental Science Index | ProQuest Natural Science Collection (Earth, Atmospheric & Aquatic Science Database) | ProQuest Technology Collection (Engineering Database) | The Summon® Service | WanFang Data.

JOURNAL OF ENVIRONMENTAL ASSESSMENT POLICY AND MANAGEMENT (JEAPM)

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



EDITOR-IN-CHIEF:
Farhad Taghizadeh-Hesary
(Tokai University, Japan)

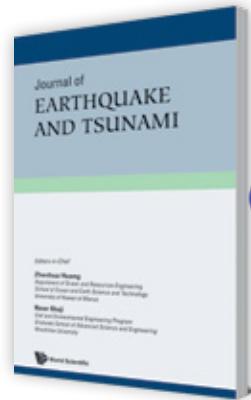
AIMS & SCOPE

This is an interdisciplinary, peer reviewed, international journal covering policy and decision-making relating to environmental assessment (EA) in the broadest sense. Uniquely, its specific aim is to explore the horizontal interactions between assessment and aspects of environmental management and decision-making, as well as the vertical interactions within the broad field of impact assessment. Ultimately, the journal aims at identifying comprehensive approaches to environmental improvement involving both qualitative and quantitative information. As the concepts associated with sustainable development mature, links between environmental assessment and management systems become all the more essential. The focus of the journal is on policy, procedures and law covering project and policy formulation, development and implementation, public participation and the institutional basis for EA. The journal aims to provide a forum for imaginative and creative thinking around the theoretical and empirical foundations of environmental assessment and management..

Abstracting/Indexing: Academic OneFile | Baidu | Business Source Complete | Biological Abstracts | BIOSIS Previews | Biomedical Reference Collection | CAB Abstracts | CNKI | CnpLINKer | Crossref | CSA Human Population and the Environment Abstracts | CSA Pollution Abstracts | CSA Selected Water Resources Abstracts | CSA Toxicology Abstracts | Dimensions | Ebsco Discovery Service | EBSCO Electronic Journal Service (EJS) | Environmental Abstracts (CSA) | Environment Index | Environmental Studies And Policy Collection | ExLibris Primo Central | Geobase | Google Scholar | GreenFILE | GREENR - Global Reference on the Environment, Energy, and Natural Resources | International Bibliography of the Social Sciences (IBSS) | J-Gate | Naver | National Science and Technology Libraries (NSTL) | OCLC WorldCat® | ProQuest Environmental Science Index | ProQuest Meteorological & Geoastrophysical Abstracts | ProQuest Technology Collection (Engineering Database) | Science Citation Index Expanded | Scopus | The Summon® Service | WanFang Data.

JOURNAL OF EARTHQUAKE AND TSUNAMI (JET)

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



Impact factor
3.4
in the year 2024

FOUNDING MANAGING EDITORS

Muneo Hori
(The University of Tokyo, Japan)

Fook-Hou Lee
(National University of Singapore)

EDITORS-IN-CHIEF

Zhenhua Huang (School of Ocean and Earth Science and Technology, University of Hawaii at Manoa)

Naser Khajji (Graduate School of Advanced Science and Engineering, Hiroshima University, Japan)

AIMS & SCOPE

This journal provides a common forum for scientists and engineers working in the areas of earthquakes and tsunamis to communicate and interact with one another and thereby enhance the opportunities for such cross-fertilization of ideas. The Journal publishes original papers pertaining to state-of-the-art research and development in Geological and Seismological Setting; Ground Motion, Site and Building Response; Tsunami Generation, Propagation, Damage and Mitigation, as well as Education and Risk Management following an earthquake or a tsunami.

Abstracting/Indexing: Abstracting/Indexing: Academic OneFile | Baidu | CNKI Scholar | CnpLINKer | Crossref | Ebsco Discovery Service | EBSCO Electronic Journal Service (EJS) | ExLibris Primo Central | Geobase | Google Scholar | Environmental Studies And Policy Collection | ExLibris Primo Central | Geobase | Google Scholar | GreenFILE | GREENR - Global Reference on the Environment, Energy, and Natural Resources | International Bibliography of the Social Sciences (IBSS) | J-Gate | Naver | National Science and Technology Libraries (NSTL) | OCLC WorldCat® | ProQuest Environmental Science Index | ProQuest Meteorological & Geoastrophysical Abstracts | ProQuest Technology Collection (Engineering Database) | Science Citation Index Expanded | Scopus | The Summon® Service.

Submit your paper to these journals. Recommend them to your librarian!

For a FREE institutional trial or subscribe to these journals, please contact us at sales@wspc.com

INTERNATIONAL JOURNAL OF APPLIED MECHANICS (IJAM)

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



Impact factor
2.6
in the year 2024

EDITORS-IN-CHIEF

Zishun LIU (*Xi'an Jiaotong University, China*)
Tiejun WANG (*Xi'an Jiaotong University, China*)

EDITORS

Huajian GAO (*Brown University, USA*)
Tianjian LU (*Nanjing University of Aeronautics and Astronautics, China*)
Zhigang SUO (*Harvard University, USA*)

EXECUTIVE EDITORS

Markus J. BUEHLER (*Massachusetts Institute of Technology, USA*)
Nick HILL (*University of Glasgow, UK*)
Xiaoyu LUO (*University of Glasgow, UK*)

AIMS & SCOPE

In addition to cover the classical branches of applied mechanics, namely solid mechanics, fluid mechanics, thermodynamics, and material science, the journal encourages contributions from the newly emerging areas such as biomechanics, electromechanics, the mechanical behavior of advanced materials, nanomechanics, and many other interdisciplinary 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.

Abstracting/Indexing: Academic OneFile | Baidu | Civil Engineering Abstracts | CNKI | CnPLINKer | Compendex | CrossRef | Current Contents® /Engineering Computing and Technology | Ebsco Discovery Service | EBSCO Electronic Journal Service (EJS) | ExLibris Primo Central | Google Scholar | INSPEC | ISI Alerting Services | J-Gate | Journal Citation Reports/Science Edition | Mathematical Reviews | Naver | NSTL - National Science and Technology Libraries | OCLC WorldCat® | Science Citation Index Expanded | Scopus | The Summon® Service | Zentralblatt MATH.

INTERNATIONAL JOURNAL OF STRUCTURAL STABILITY AND DYNAMICS (IJSSD)

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



Impact factor
3.4
in the year 2024

EDITORS-IN-CHIEF

Y B Yang (*School of Civil Engineering, Chongqing University, China*)

C M Wang (*School of Civil Engineering, The University of Queensland, Australia*)

J N Reddy (*Department of Mechanical Engineering, Texas A&M University, USA*)

AIMS & SCOPE

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.

Abstracting/Indexing: Academic OneFile | Academic Search Complete/ Elite/ Premier | Baidu | Civil Engineering Abstracts | CNKI | CnPLINKer | Compendex | CrossRef | CSA Health and Safety Abstracts | Current Contents®/Engineering, Computing, and Technology | Ebsco Discovery Service | EBSCO Electronic Journal Service (EJS) | Engineering Source (Ebsco) | ExLibris Primo Central | Google Scholar | INSPEC | ISI Alerting Services | J-Gate | Journal Citation Reports/Science Edition | Mathematical Reviews | Naver | NSTL - National Science and Technology Libraries | OCLC WorldCat® | Science Citation Index Expanded | Scopus | The Summon® Service | Zentralblatt MATH.

JOURNAL OF MULTISCALE MODELLING (JMM)

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



Check out the FREE articles online!

Impact factor
0.9
in the year 2024

EDITOR-IN-CHIEF

M H Aliabadi
(*Imperial College London, UK*)

AIMS & SCOPE

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.

Abstracting/Indexing: Academic OneFile | Baidu | Chemical Abstracts Service | CNKI | CnPLINKer | Compendex | CrossRef | Ebsco Discovery Service | EBSCO Electronic Journal Service (EJS) | Emerging Sources Citation Index (ESCI) | ExLibris Primo Central | Google Scholar | J-Gate | Naver | National Science and Technology Libraries (NSTL) | OCLC WorldCat® | ProQuest SciTech Premium Collection | Scopus | The Summon® Service.

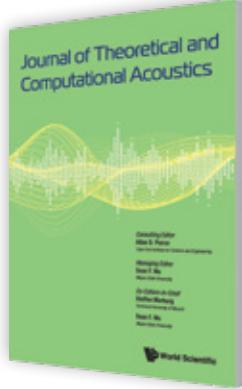
Submit your paper to these journals. Recommend them to your librarian!

For a FREE institutional trial or subscribe to these journals, please contact us at sales@wspc.com

JOURNAL OF THEORETICAL AND COMPUTATIONAL ACOUSTICS (JTCA)

Formerly known as *Journal of Computational Acoustics (JCA)*

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



This Journal will be converted into a Transformative Journal from Jan 2022 onwards.



CONSULTING EDITOR

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

CO-EDITORS-IN-CHIEF

Steffen Marburg (Technical University of Munich, Germany)

Sean F. Wu (Wayne State University, USA)

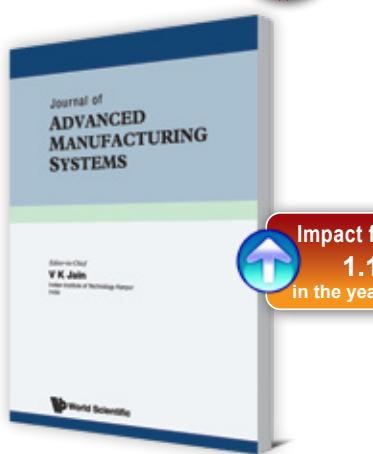
AIMS & SCOPE

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.

Abstracting/Indexing: Academic OneFile | Academic Search Complete/ Elite/ Premier | Baidu | CNKI Scholar | CnpLINKer | Compu-Math Citation Index® | CrossRef | CSA Aquatic Sciences and Fisheries Abstracts (ASFA) | CSA Meteorological & Geoastrophysical Abstracts | CSA Oceanic Abstracts | CSA Selected Water Resources Abstracts | Current Contents® Engineering, Computing and Technology | Ebsco Computer & Applied Science Complete | Ebsco Discovery Service | Ebsco Electronic Journal Service (EJS) | Ebsco Engineering Source | Ebsco Primo Central | Geobase | Google Scholar | INSPEC | J-Gate | Naver | National Science and Technology Libraries (NSTL) | OCLC WorldCat® | ProQuest Technology Collection (Material Science & Engineering Database) | Scopus | The Summon® Service.

JOURNAL OF ADVANCED MANUFACTURING SYSTEMS (JAMS)

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



Impact factor
1.1
in the year 2024

EDITOR-IN-CHIEF

Dr V K Jain (Prof Retired)
(Indian Institute of Technology Kanpur, India)

AIMS & SCOPE

Journal of Advanced Manufacturing Systems 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.

Abstracting/Indexing: Academic OneFile | Baidu | Business Source Complete | Civil Engineering Abstracts | CNKI | CnpLINKer | Compendex | CrossRef | Ebsco Discovery Service | EBSCO Electronic Journal Service (EJS) | Emerging Sources Citation Index (ESCI) | Engineering Source (Ebsco) | ExLibris Primo Central | Geobase | Google Scholar | INSPEC | J-Gate | Naver | National Science and Technology Libraries (NSTL) | OCLC WorldCat® | ProQuest Technology Collection (Material Science & Engineering Database) | Scopus | The Summon® Service.

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

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



Impact factor
0.9
in the year 2024

EDITOR-IN-CHIEF

Hoang Pham (Rutgers University, USA)

AIMS & SCOPE

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.

Abstracting/Indexing: Academic OneFile | Baidu | Civil Engineering Abstracts | CNKI | CnpLINKer | Compendex | CrossRef | CSA Aquatic Sciences and Fisheries Abstracts (ASFA) | CSA Health and Safety Abstracts | CSA Risk Abstracts | CSA Selected Water Resources Abstracts | Ebsco Discovery Service | EBSCO Electronic Journal Service (EJS) | Emerging Sources Citation Index (ESCI) | Engineering Source (Ebsco) | ExLibris Primo Central | Geobase | Google Scholar | INSPEC | J-Gate | Naver | National Science and Technology Libraries (NSTL) | OCLC WorldCat® | ProQuest Technology Collection (Material Science & Engineering Database) | Scopus | The Summon® Service.

FREE access to the selected articles.

Submit your paper to these journals. Recommend them to your librarian!

For a FREE institutional trial or subscribe to these journals, please contact us at sales@wspc.com

ADVANCES IN DATA SCIENCE AND ADAPTIVE ANALYSIS (ADSAA)

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



EDITOR-IN-CHIEF

Carson Kai-Sang Leung
(University of Manitoba, Canada)

AIMS & SCOPE

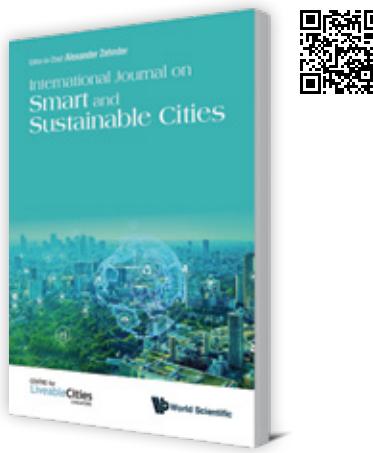
Advances in Data Science and Adaptive Analysis (ADSAA) is an interdisciplinary journal dedicated to reporting original research results on data analysis methodology developments and their applications, with a special emphasis on adaptive approaches. The mission of the journal is to elevate data analysis from one of routine data processing by traditional tools to a new scientific level, which encourages the development of innovative methods for data science and its scientific research and engineering applications.

Data are the direct record of an event, such as a rocket launch, a phenomenon, nature, or engineering processes. The record can be taken by our eyes, ears, electronic sensors, or mechanical devices. We analyze the data, detect signals and make decisions. Thus, data are connections between reality and us, and data analysis is for us to understand the reality and to find out its underlying driving mechanism. In this sense, data analysis is very different from data processing. The former emphasizes detailed decomposition and examinations of the data to extract physical understanding, while the latter often relies on established algorithms and machines to output values of mathematical parameters.

Abstracting/Indexing: Academic OneFile | Baidu | CNKI | CnpLINKer | Compendex | Computer & Information Systems Abstracts | CrossRef | DBLP Computer Science Bibliography | Ebsco Discovery Service | EBSCO Electronic Journal Service (EJS) | Emerging Sources Citation Index (ESCI) | ExLibris Primo Central | Google Scholar | J-Gate | Mathematical Reviews® (MR) / MathSciNet® | Naver | NSTL - National Science and Technology Libraries | OCLC WorldCat® | ProQuest Technology Collection (Advanced Technologies Database with Aerospace) | The Summon® Service | Zentralblatt MATH.

INTERNATIONAL JOURNAL ON SMART AND SUSTAINABLE CITIES (IJSSC)

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



EDITOR-IN-CHIEF

Alexander Zehnder
(Nanyang Technological University, Singapore)

AIMS & SCOPE

The *International Journal on Smart and Sustainable Cities* is a biannual publication which aims to provide a platform for global inter-disciplinary research that is at the nexus of urban science and technology, sustainable development, urban planning and resilience, with a focus on the Asia-Pacific region. It accepts high-quality research papers, review papers, insights, and opinions from practitioners and policy makers in, but not limited to, the following topics:

- complexity science for cities
- application of digital humanities and citizen science to address city challenges
- the use of emerging technology such as artificial intelligence, big data, advancements in modelling and visualization, cloud computing, and/or Internet of Things to enhance liveability, sustainability, restorative, regenerative and/or wellbeing benefits in urban systems such as food, energy, water, etc.
- the development of human-centric infrastructure in cities
- the adoption of multi-stakeholder approach to anticipate and tackle emerging urban challenges
- sustainable development in cities, including on aspects of energy, urban greenery, mobility, planning, architecture, real estate, financing, governance, etc.
- other related topics

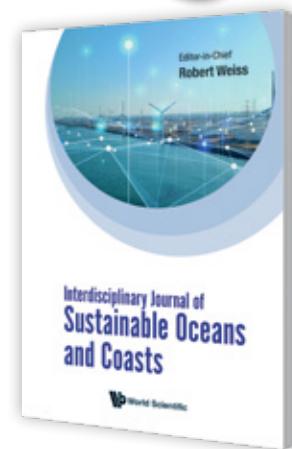
Abstracting/Indexing: Baidu | CNKI Scholar | CnpLINKer | Crossref | Dimensions | Ebsco Discovery Service | EBSCO Electronic Journal Service (EJS) | ExLibris Primo Central | Google Scholar | J-Gate | Naver | NSTL - National Science and Technology Libraries | OCLC WorldCat® | The Summon® Service.

INTERDISCIPLINARY JOURNAL OF SUSTAINABLE OCEANS AND COASTS (IJSOC)

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



Open Access



EDITOR-IN-CHIEF

Robert Weiss (Virginia Tech, USA)

AIMS & SCOPE

The *Interdisciplinary Journal of Sustainable Oceans and Coasts* (IJSOC) is an international open-access online journal interrogating the interactions of earth systems in oceans and coastal zones.

IJSOC will publish original research, reviews and perspective articles that aim to increase our understanding of the world's complex oceans and the coastal zones that connect them to related land-based systems. In particular, it is intended that the articles published by the IJSOC community may help to develop and inspire action supporting the UN Sustainable Development Goals. Safeguarding and augmenting the well-being of our oceans and coasts is imperative for our sustainable future, and so it is necessary to take collective action in order to make meaningful progress.

The sensitive interfaces between the vast, hidden expanses of the ocean and the diverse array of terrestrial landforms make up the coastal zone. Coastal zones are defined as the area over land impacted by processes starting over the oceans and the area over the ocean influenced by processes that start over land. In the context of earth systems, these processes are natural but can also be social, economic, political, public health, and security related. Marine and coastal zone processes influence the life of every human being either directly or indirectly through cascading consequences within the coupled human-natural earth system.

Abstracting/Indexing: Baidu | CNKI Scholar | CnpLINKer | Crossref | Dimensions | Ebsco Discovery Service | EBSCO Electronic Journal Service (EJS) | ExLibris Primo Central | Google Scholar | J-Gate | Naver | NSTL - National Science and Technology Libraries | OCLC WorldCat® | The Summon® Service.

Bestselling Backlist for Engineering						
TITLE	AUTHOR	AuthorAffl	ISBN13	PUB DATE	US\$	£
WATER WAVE MECHANICS FOR ENGINEERS AND SCIENTISTS	DALRYMPLE ROBERT A ET AL	UNIV OF DELAWARE, USA	9789810204211(pbk)	01-Jan-91	49	41
INTRODUCTION TO COASTAL ENGINEERING AND MANAGEMENT (THIRD EDITION)	KAMPHUIS J WILLIAM	QUEEN'S UNIV, CANADA	9789811208980(pbk)	08-Jun-20	58	50
MECHANICS OF COASTAL SEDIMENT TRANSPORT	FREDSOE JORGEN & DEIGAARD ROLF	TECHNICAL UNIV OF DENMARK	9789810208417(pbk)	01-Nov-92	49	41
CONSTRUCTION TECHNOLOGY FOR TALL BUILDINGS (FIFTH EDITION)	CHEW MICHAEL YIT LIN	NUS, S'PORE	9789813220683(pbk)	13-Jul-17	98	81
PRACTICAL RAILWAY ENGINEERING (2ND EDITION)	BONNETT CLIFFORD FREDERICK	RETIRED, IMPERIAL COLLEGE LONDON, UK	9781860945151	10-Jun-05	83	69
RANDOM SEAS AND DESIGN OF MARITIME STRUCTURES (3RD EDITION)	GODA YOSHIMI	YOKOHAMA NAT'L UNIV, JAPAN	9789814282390	24-Jun-10	160	133
RANDOM SEAS AND DESIGN OF MARITIME STRUCTURES (3RD EDITION)	GODA YOSHIMI	YOKOHAMA NAT'L UNIV, JAPAN	9789814282406(pbk)	24-Jun-10	78	65
MATHEMATICS OF NATURAL CATASTROPHES, THE	WOO GORDAN	CATASTROPHE MANAGEMENT, EQECAT, UK	9781860941825	18-Oct-99	109	95
COASTAL BOTTOM BOUNDARY LAYERS AND SEDIMENT TRANSPORT	NIELSEN P	UNIV OF QUEENSLAND, AUSTRALIA	9789810204730(pbk)	01-Jul-92	49	41
APPLIED DYNAMICS OF OCEAN SURFACE WAVES, THE	MEI CHIANG C	MASSACHUSETTS INST OF TECH, USA	9789971507893(pbk)	01-Jul-89	38	32
SAVING AMERICA'S BEACHES: THE CAUSES OF AND SOLUTIONS TO BEACH EROSION	DOUGLASS S L	UNIV OF SOUTH ALABAMA, USA	9789812380975(pbk)	12-Aug-02	52	43
SCIENCE OF STRUCTURAL ENGINEERING, THE	HEYMAN J	UNIV OF CAMBRIDGE	9781860941894(pbk)	23-Nov-99	49	41
BEACH NOURISHMENT: THEORY AND PRACTICE	DEAN ROBERT G	UNIV OF FLORIDA, USA	9789810215484(pbk)	24-Jan-03	54	45
MECHANICS OF SCOUR IN THE MARINE ENVIRONMENT, THE	SUMER B M & FREDSOE J	TECHNICAL UNIV OF DENMARK, DENMARK	9789810249304	23-Apr-02	92	76
GUIDE TO MODELING COASTAL MORPHOLOGY, A	ROELVINK DANO ET AL	UNESCO-IHE & DELTARES, THE NETHERLANDS	9789814304252	03-Nov-11	120	100
HANDBOOK OF COASTAL AND OCEAN ENGINEERING (EXPANDED EDITION) (IN 2 VOLUMES)	KIM YOUNG C	CALIFORNIA STATE UNIV, USA	9789813204010	22-Dec-17	538	473

Proceedings						
TITLE	AUTHOR	AuthorAffl	ISBN13	PUB DATE	US\$	£
PROCEEDINGS OF THE COASTAL SEDIMENTS 2023, THE (IN 5 VOLUMES)	UNIV OF SOUTH FLORIDA, USA	WANG PING ET AL	9789811279898	27-Jun-23	1180	1085
COASTAL SEDIMENTS 2019 - PROCEEDINGS OF THE 9TH INTERNATIONAL CONFERENCE	UNIV OF SOUTH FLORIDA, USA	WANG PING ET AL	9789811204487	17-May-19	1882	1730
ASIAN AND PACIFIC COASTS 2017 - PROCEEDINGS OF THE 9TH INTERNATIONAL CONFERENCE ON APAC 2017	SEOUL NATIONAL UNIV, KOREA	SUH KYUNG- DUCK ET AL	9789813233812	21-Sep-17	549	485
CIVIL ENGINEERING AND URBAN PLANNING - PROCEEDINGS OF THE 5TH INTERNATIONAL CONFERENCE ON CIVIL ENGINEERING AND URBAN PLANNING (CEUP2016)	UNIV PARIS-EST, FRANCE	MEBARKI AHMED	9789813225237	06-Jun-17	795	700
PROCEEDINGS OF THE COASTAL SEDIMENTS 2015, THE	UNIV OF SOUTH FLORIDA, USA	ROSATI JULIE D, WANG PING & CHENG JUN	9789814689977	23-Apr-15	1882	1560
COASTAL STRUCTURES 2011 - PROCEEDINGS OF THE 6TH INTERNATIONAL CONFERENCE (IN 2 VOLUMES)	PORT AND AIRPORT RES INST, JAPAN	TAKAHASHI SHIGEO ET AL	9789814412216	08-Apr-13	917	805

How Do You Collect Ideas of Leading Thinkers in **Engineering** in One Neat Package?

Top Engineering Publishing Programme with **Renowned** Authors in various fields including Aerospace, Biomedical, Chemical, Computer, Civil, Electrical & Electronics, Industrial, Mechanical, Coastal and Systems Engineering.

Engineering E-Book Collection



From an independent publisher of **Leading Thinkers** in Engineering

Highly Recommended and **Bestselling** Engineering Titles **Specially** Tailored For Your Scholarly Needs.

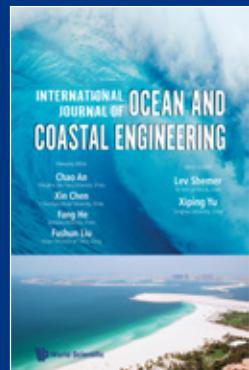
All the major disciplines of Engineering

Seamless delivery of Premier Academic Content

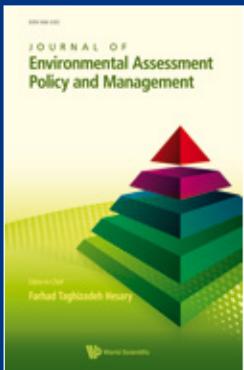
WORLD SCIENTIFIC JOURNALS AT

<https://www.worldscientific.com/page/wsjournals>

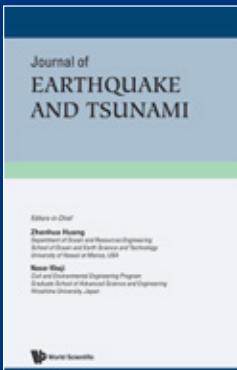
page 10



page 10



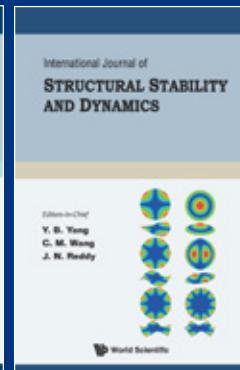
page 10



page 11



page 11



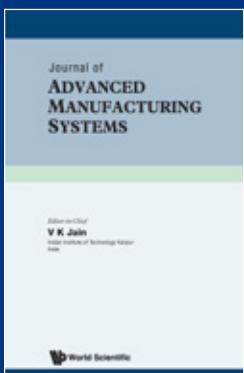
page 11



page 12



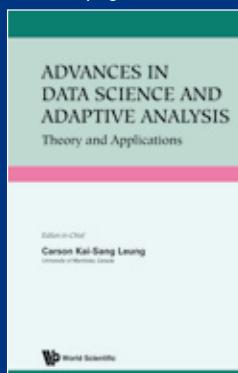
page 12



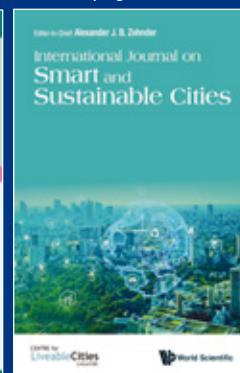
page 12



page 13



page 13



page 13



For orders and enquiries, please contact us:



DELHI

4381/4 Ansari Road, Daryaganj, New Delhi 110002

Pushpendra Kumar

Mobile: +91 9015043442

BENGALURU

C-22, Brigade MM, KR Road, Jayanagar 7th Block, Bengaluru 560070

Shekar Reddy

Mobile: +91 9945234476

MUMBAI

Vijay Kumar

Mobile: +91 9871176434

CHENNAI

G Srinivasan

Mobile: +91 9003047502

KOLKATA

Dhrubajyoti Bhattacharjee

Mobile: +91 9836160013

HYDERABAD

K.S.Vishwanath

Mobile: +91 9871745850

For Catalogues & title lists: marketing@feelbooks.in

FEELBOOKS PVT. LTD.

Tel: +91-11-47472630

Email: orders@feelbooks.in

Tel: +91-80-26762129

Email: bangalore@feelbooks.in

Email: vkumar@feelbooks.in

Email: gsrinivasan@feelbooks.in

Email: dbhattacharjee@feelbooks.in

Email: kvishwanath@feelbooks.in



www.feelbooks.in

