



# Civil Engineering 2026



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# Highlights

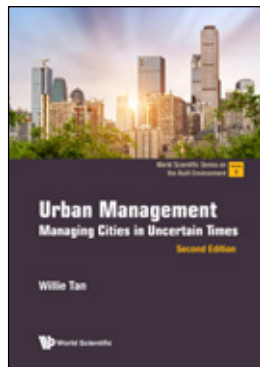
## Civil Engineering Catalogue 2026

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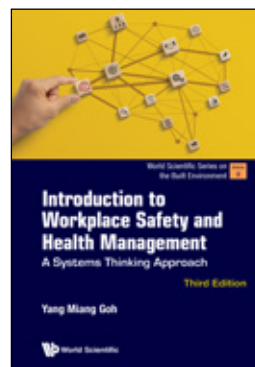
Editor-in-chief: **Ursula Eicker**  
(Concordia University, Canada)

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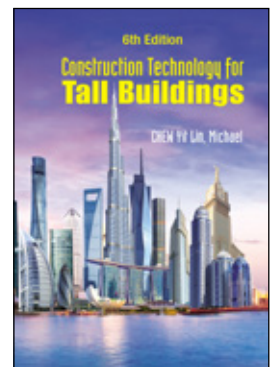
by **Willie Tan**  
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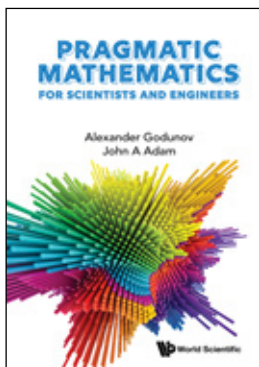
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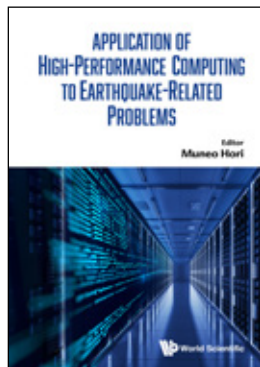
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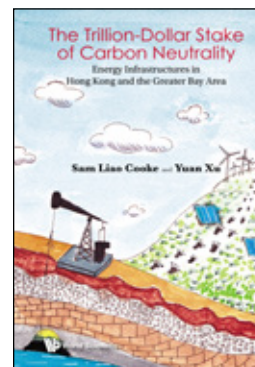
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(Old Dominion University, USA)

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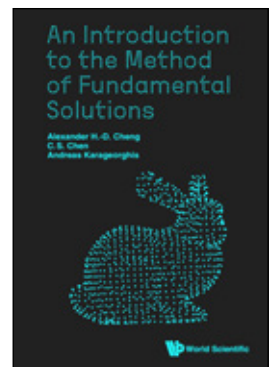
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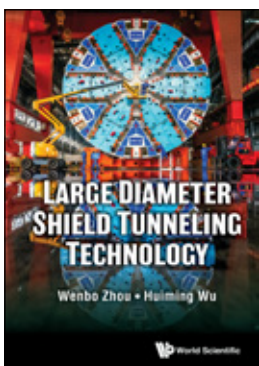
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(University of Cyprus, Cyprus)

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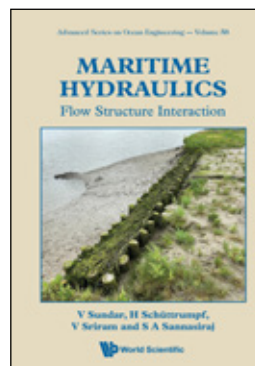
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(Shanghai Tunnel Engineering Co., Ltd., China)

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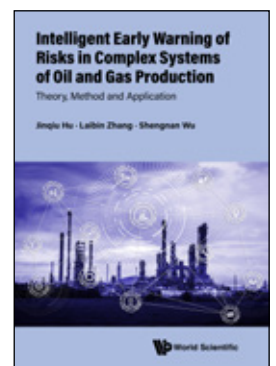
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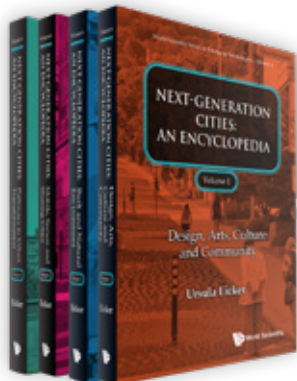
Volume 4: Pathways to Urban Transformation

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.

<b>1200pp</b>	<b>Oct 2026</b>	
<b>978-981-128-950-7(Set)</b>	<b>US\$1088</b>	<b>£1000</b>
<b>978-981-128-944-6(Set)(ebook)</b>	<b>US\$2048</b>	<b>£1885</b>



World Scientific Series on  
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### URBAN MANAGEMENT

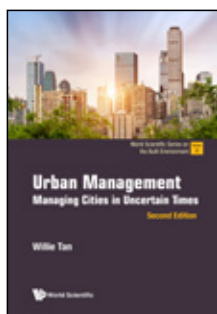
Managing Cities in Uncertain Times  
2nd Edition

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.

<b>280pp</b>	<b>Dec 2025</b>	
<b>978-981-9807-11-6(pbk)</b>	<b>US\$58</b>	<b>£55</b>
<b>978-981-9805-85-3</b>	<b>US\$108</b>	<b>£100</b>
<b>978-981-9805-86-0(ebook)</b>	<b>US\$173</b>	<b>£160</b>



World Scientific Series on  
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### INTRODUCTION TO WORKPLACE SAFETY AND HEALTH MANAGEMENT

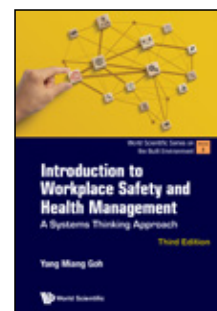
A Systems Thinking Approach (3rd Edition)

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.

<b>380pp</b>	<b>Sep 2024</b>	
<b>978-981-129-006-0(pbk)</b>	<b>US\$78</b>	<b>£70</b>
<b>978-981-129-001-5</b>	<b>US\$118</b>	<b>£110</b>
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### 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.

<b>480pp</b>	<b>Nov 2024</b>	
<b>978-981-129-392-4(pbk)</b>	<b>US\$98</b>	<b>£90</b>
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## Analysis and Applications in Civil Engineering

### PRAGMATIC MATHEMATICS FOR SCIENTISTS AND ENGINEERS

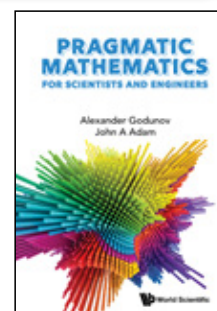
by **Alexander Godunov & John A Adam**

(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.

<b>484pp</b>	<b>Sep 2024</b>	
<b>978-981-129-133-3</b>	<b>US\$158</b>	<b>£145</b>
<b>978-981-129-134-0(ebook)</b>	<b>US\$253</b>	<b>£230</b>



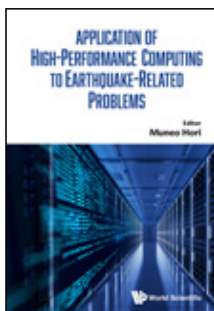
## APPLICATION OF HIGH-PERFORMANCE COMPUTING TO EARTHQUAKE-RELATED PROBLEMS

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.

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



## INTRODUCTION TO EMERGING FIELDS IN MATERIALS SUSTAINABILITY

by **Pankaj Pathak** (SRM University Andhra Pradesh, India), **Susmita Sharma** (National Institute of Technology Meghalaya, India), **Ramados 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.

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



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## 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.

<b>300pp</b>	<b>Dec 2026</b>	
<b>978-981-121-904-7</b>	<b>US\$118</b>	<b>£110</b>
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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.

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- 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.

<b>500pp</b>	<b>Jun 2026</b>	
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## FLUID MOTION UNMASKED

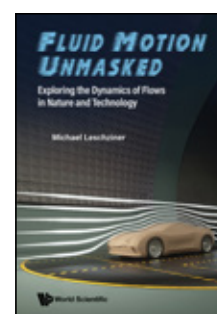
Exploring the Dynamics of Flows in Nature and Technology

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.

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



World Scientific Series on the Built Environment - Volume 9

## ASSET MANAGEMENT IN UNCERTAIN TIMES

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

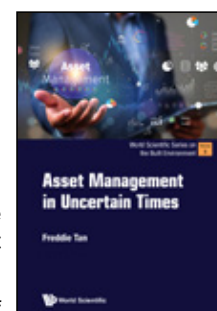
This book cultivates a deeper awareness of the science and art of asset management amidst today's poly-crisis environment.

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.

<b>220pp</b>	<b>Jun 2025</b>	
<b>978-981-98-1636-1</b>	<b>US\$88</b>	<b>£80</b>
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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.

<b>400pp</b>	<b>Aug 2025</b>	
<b>978-981-3234-50-5</b>	<b>US\$138</b>	<b>£125</b>
<b>978-981-3234-51-2(ebook)</b>	<b>US\$221</b>	<b>£205</b>



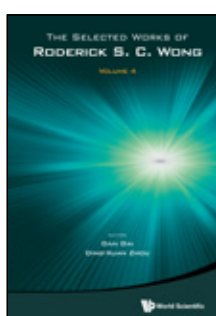
## THE SELECTED WORKS OF RODERICK S C WONG

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.

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



## 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.

<b>616pp</b>	<b>Mar 2025</b>	
<b>978-981-129-847-9</b>	<b>US\$178</b>	<b>£165</b>
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## 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)

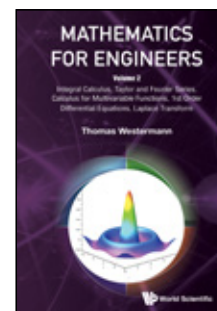
This second volume in our series is intended primarily as a companion text for the second semester mathematics preliminaries for students and lecturers of electrical engineering and other engineering disciplines.

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.

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



## THE TRILLION-DOLLAR STAKE OF CARBON NEUTRALITY

Energy Infrastructures in Hong Kong and the Greater Bay Area

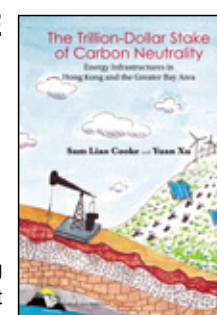
by **Sam Liao Cooke** (The Chinese University of Hong Kong, Hong Kong) & **Yuan Xu** (The Chinese University of Hong Kong, Hong Kong)

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.

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



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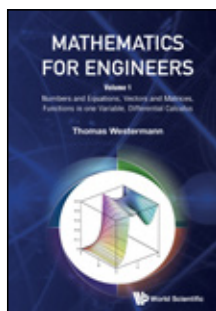
## MATHEMATICS FOR ENGINEERS

**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.

<b>336pp</b>	<b>Jun 2024</b>	
<b>978-981-129-278-1(pbk)</b>	<b>US\$58</b>	<b>£55</b>
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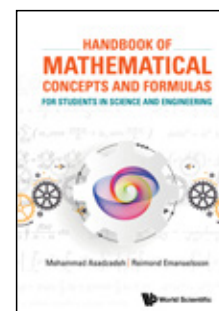
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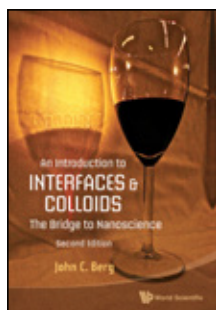
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This book proposes a system for emergency red tide monitoring for harbors derived from long-term toxic red tide tracking and early warning systems in Xiamen's seas. The work presents early warning and prevention recommendations that can be used by 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.

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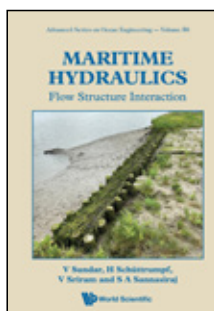
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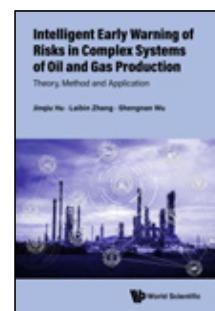
This unique compendium comprehensively covers several important topics related to the field of maritime hydraulics, particularly the underlying physics in the wave structure interaction with the coastal structures, coastal and inland flooding during extreme events in addition to perineal erosion. These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

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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.

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**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.

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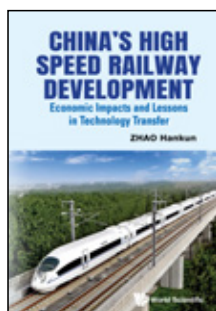
Economic Impacts and Lessons in Technology Transfer  
by **Hankun Zhao** (*Vision Holding Group, Singapore*)

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.

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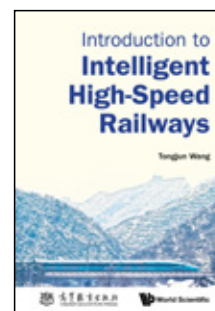
**INTRODUCTION TO INTELLIGENT HIGH-SPEED RAILWAYS**

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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.

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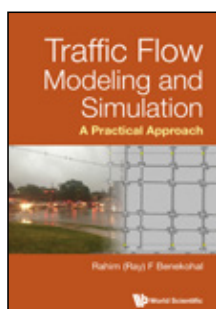
A dynamic traffic-roadway environment is a complex system and representing it requires techniques that are beyond the capabilities of simple analytical tools.

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

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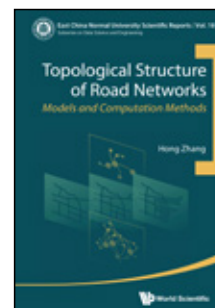
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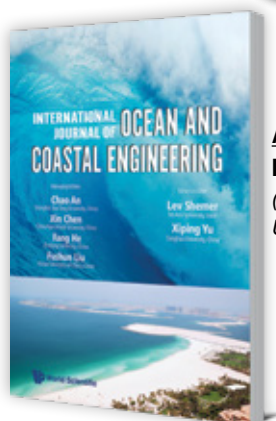
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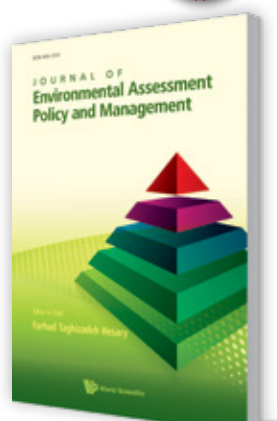
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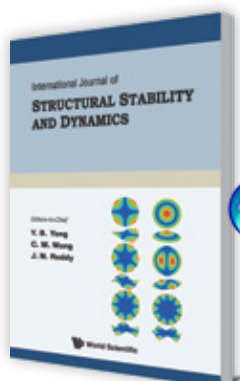
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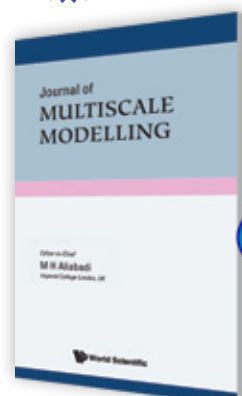
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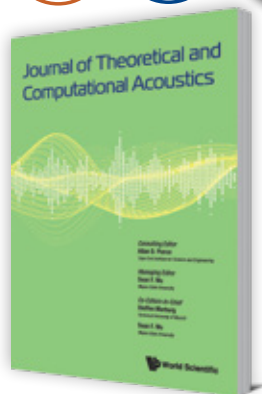
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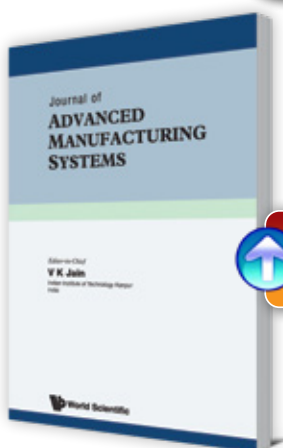
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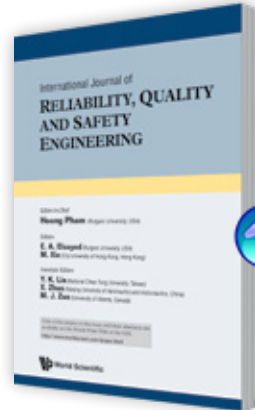
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### AIMS & SCOPE

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### 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.

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### AIMS & SCOPE

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



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### AIMS & SCOPE

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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.

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