

# CIVIL ENGINEERING



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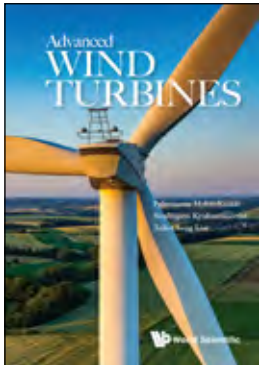
2024



# Highlights

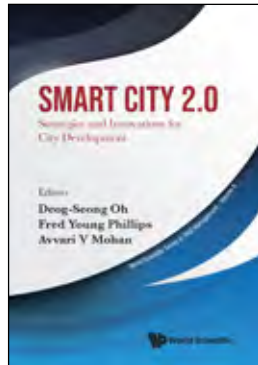
Civil Engineering Catalogue 2024

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by **Palanisamy MohanKumar** (Nanyang Technological University, Singapore), **Sivalingam Krishnamoorthi** (Rolls-Royce Singapore Pte Ltd, Singapore) & **Teik-Cheng Lim** (Singapore University of Social Sciences, Singapore)

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edited by **Deog-Seong Oh** (Woosong University, South Korea), **Fred Young Phillips** (University of New Mexico, USA & Tongji University, China) & **Avvari V Mohan** (University of Nottingham Malaysia Campus, Malaysia)

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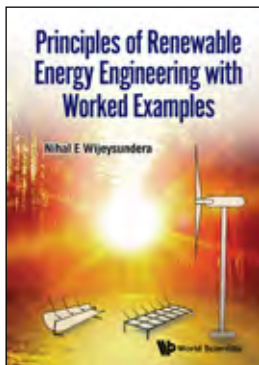
by **Jonathan K M Lian** (National University of Singapore, Singapore)

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

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by **Nihal E Wijesundera**

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by **Chee Kai Chua** (Singapore University of Technology and Design, Singapore), **Wai Yee Yeong** (Nanyang Technological University, Singapore), **Hong Wei Tan** (Singapore University of Technology and Design, Singapore), **Yi Zhang** (University of Electronic Science and Technology of China, China), et al.

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by **D N Singh** (Indian Institute of Technology Bombay, India), **Afshin Asadi** (International College of Auckland, New Zealand) & **Goli Venkata Siva Naga Sai** (Indian Institute of Technology Bombay, India)

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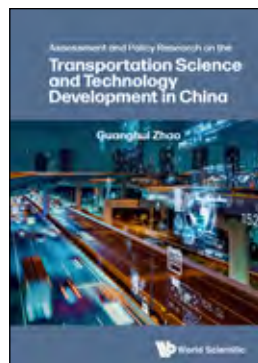
edited by **Achintya Haldar** (University of Arizona, USA) & **Abdullah Al-Hussein** (University of Basrah, Iraq)

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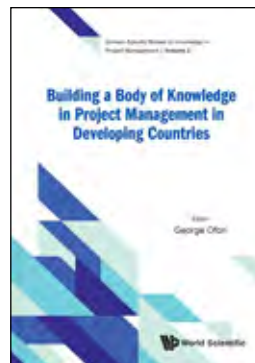
by **Man-Chung Tang** (T Y Lin International Group, China)  
Translated by: **Jingyi Guo** (Chongqing Jiaotong University, China)

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by **Guanghui Zhao** (Guizhou University of Finance and Economics, China)

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edited by **George Ofori** (London South Bank University, UK)

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by **Qizhou Hu** (Nanjing University of Science and Technology, China)

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# Civil Engineering

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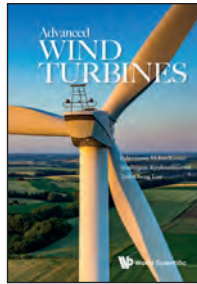
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Sustainability, Architecture, Building Management and Construction

**ADVANCED WIND TURBINES**

by **Palanisamy MohanKumar** (Nanyang Technological University, Singapore), **Sivalingam Krishnamoorthi** (Rolls-Royce Singapore Pte Ltd, Singapore) & **Teik-Cheng Lim** (Singapore University of Social Sciences, Singapore)



*"This book is a good reference for those wanting to better understand the aerodynamics driving the design and performance of vertical axis wind turbines. The authors have written it from the perspective of industrial applications focused on the conditions specifically for small city-states that are not naturally endowed with sufficiently strong wind. It is a veritable mine of numerical and experimental data, useful for research and professional work. It proved to be a useful resource throughout the design process for a client's unique wind energy project. I would strongly recommend this book as a good reference for scientists, engineers and any companies worldwide working on wind turbines."*

**Ion Paraschivoiu, Full Professor, Polytechnique Montréal, Canada**

*Advanced Wind Turbines* provides detailed information that is of great practical importance to wind turbine practitioners from small and congested city-states, where the lack of vast land and high wind speed render the conventional wind turbine less effective. It introduces the non-conventional Darrieus and Savonius wind turbines, as well as their hybrid version, covering basic concepts, computational modelling and recent advances in experimental optimization. Floating offshore wind turbines are also discussed, and the dynamics of floating vis-à-vis grounded wind turbines are thoroughly expounded upon to aid practitioners in achieving more accurate performance modelling. This is a work of paramount usefulness for areas which have long wanted to jump on the renewable energy bandwagon, but have thus far been hampered by their natural geographical limitations.

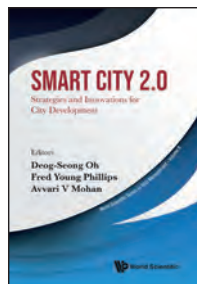
**Readership:** Wind turbine engineers and companies working on non-conventional wind turbines, such as Vertical Axis Wind Turbines and Floating Offshore Wind Turbines. Academics, researchers, and postgraduate students in Wind Engineering.

<b>500pp</b>	<b>Jul 2023</b>	
<b>978-981-127-248-6</b>	<b>US\$168</b>	<b>£150</b>
<b>978-981-127-249-3(ebook)</b>	<b>US\$269</b>	<b>£235</b>

World Scientific Series in R&D Management - Vol 8

**SMART CITY 2.0**

Strategies and Innovations for City Development edited by **Deog-Seong Oh** (Woosong University, South Korea), **Fred Young Phillips** (University of New Mexico, USA & Tongji University, China) & **Avvari V Mohan** (University of Nottingham Malaysia Campus, Malaysia)



The first generation of smart cities showed the limits of top-down planning, in which cities contracted out design and implementation to IT providers. As residents resented paying high taxes for "smart" urban features that they did not want or use, it became plain that smart cities were not sustainable, and needed to be re-thought. "Smart City 2.0" starts the design process with understanding the needs of human residents. Little has yet been written about smart cities' second wind. This book offers leading-edge, international perspectives on Smart City 2.0. It offers an overview of the sustainable smart city concept, presents leading experts' latest thinking on strategies for a new generation of smart cities, and showcases eight implementation case studies from seven countries. All chapters are contributed by prominent, leading thinkers and practitioners from a dozen countries, representing both the developed and the developing worlds.

**Readership:** City planners and city officials, students and researchers in the fields of urban planning and information technology, Information infrastructure consultants and providers and others.

<b>420pp</b>	<b>Mar 2023</b>	
<b>978-981-125-717-9</b>	<b>US\$148</b>	<b>£130</b>
<b>978-981-125-718-6(ebook)</b>	<b>US\$237</b>	<b>£210</b>

World Scientific Series on the Built Environment - Vol 4

**FACILITIES PLANNING AND DESIGN**

An introduction for Facility Planners, Facility Project Managers and Facility Managers (2nd Edition)

by **Jonathan K M Lian** (National University of Singapore, Singapore)



This second edition has been extensively updated with current and new examples, case studies and references. By learning about the planning and design processes as it relates to facilities, students and facility professionals will be able to align facilities planning and design with the organisation's strategic priorities, manage design consultants by understanding the planning and design process, manage the planning and design of spaces at different scales, and manage the use of existing space effectively.

**Readership:** Students seeking careers in complex facilities; Facility planners and facility project managers new to being part of an organisation with large facilities; Facility professionals well versed with operations and maintenance; and Construction project professionals and consultants that wish to understand or take on planning and designing from a facility management perspective.

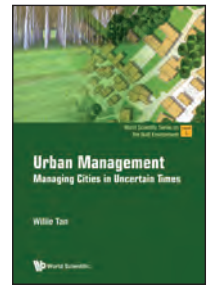
<b>248pp</b>	<b>Jan 2023</b>	
<b>978-981-126-655-3(pbk)</b>	<b>US\$58</b>	<b>£50</b>
<b>978-981-126-548-8</b>	<b>US\$98</b>	<b>£85</b>
<b>978-981-126-549-5(ebook)</b>	<b>US\$157</b>	<b>£140</b>

World Scientific Series on the Built Environment - Vol 5

**URBAN MANAGEMENT**

Managing Cities in Uncertain Times

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



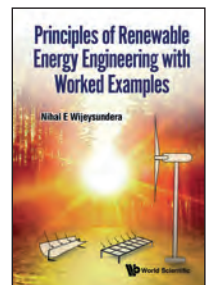
This book is about the management of cities amid the major challenges to fast growing cities as well as the struggling ones. It discusses trends in urbanization, urban challenges, the urban management approach, theories of the state and urban management, building capacity, urban planning, local economic development, housing, urban service delivery, public utilities, social services, general urban services, and transport. The book emphasizes general principles rather than specific case studies on managing cities.

**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>292pp</b>	<b>Jan 2023</b>	
<b>978-981-126-694-2(pbk)</b>	<b>US\$58</b>	<b>£50</b>
<b>978-981-126-693-5</b>	<b>US\$98</b>	<b>£85</b>
<b>978-981-126-695-9(ebook)</b>	<b>US\$157</b>	<b>£140</b>

**PRINCIPLES OF RENEWABLE ENERGY ENGINEERING WITH WORKED EXAMPLES**

by **Nihal E Wijeyesundera**



A novel feature of this unique reference is the 30 worked examples and problems highlighted at the end of each chapter. Numerical answers are provided for all the problems. Readers should be able to avoid the need to refer to several books on individual energy sources to develop a course on renewable energy.

**Readership:** Professionals, academics, researchers, undergraduate and graduate students.

<b>628pp</b>	<b>Sep 2022</b>	
<b>978-981-125-114-6</b>	<b>US\$168</b>	<b>£150</b>
<b>978-981-125-115-3(ebook)</b>	<b>US\$269</b>	<b>£215</b>

World Scientific Series in 3D Printing - Vol 4

## DIGITAL GASTRONOMY

From 3D Food Printing to Personalized Nutrition by **Chee Kai Chua** (*Singapore University of Technology and Design, Singapore*), **Wai Yee Yeong** (*Nanyang Technological University, Singapore*), **Hong Wei Tan** (*Singapore University of Technology and Design, Singapore*), **Yi Zhang** (*University of Electronic Science and Technology of China, China*), **U-Xuan Tan** (*Singapore University of Technology and Design, Singapore*), **Chen Hwei Leo** (*Singapore University of Technology and Design, Singapore*), **Michinao Hashimoto** (*Singapore University of Technology and Design, Singapore*), **Gladys Hooi Chuan Wong** (*Khoo Teck Puat Hospital, Singapore*), **Justin Jia Yao Tan** (*Singapore University of Technology and Design, Singapore*) & **Aakanksha Pant** (*Singapore University of Technology and Design, Singapore*)



In this textbook, the background, principles, commercial food printers, materials, regulations, business development, as well as the emerging technologies and future outlook of 3D food printing are explored. In terms of 3D-printed materials, four main classes are reviewed: namely, desserts / snacks (comprising dairy products, chocolate, sugars, and dough), fruits / vegetables, meats / alternative proteins, and pharmaceuticals / nutraceuticals.

**Readership:** Diploma and advanced diploma students, undergraduates, postgraduates, consultants, academics, researchers and professionals in food and nutrition, nutraceuticals and pharmaceutical or food technology related fields.

<b>432pp</b>	<b>Sep 2022</b>	
<b>978-981-125-740-7(pbk)</b>	<b>US\$68</b>	<b>£60</b>
<b>978-981-125-590-8</b>	<b>US\$128</b>	<b>£115</b>
<b>978-981-125-659-2(ebook)</b>	<b>US\$205</b>	<b>£180</b>

## ENVIRONMENTAL GEOTECHNOLOGY

Meeting Challenges Through Needs-based Instrumentation

by **D N Singh** (*Indian Institute of Technology Bombay, India*), **Afshin Asadi** (*International College of Auckland, New Zealand*) & **Goli Venkata Siva Naga Sai** (*Indian Institute of Technology Bombay, India*)



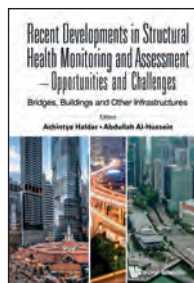
*Environmental Geotechnology* revisits existing concepts of geotechnical engineering critically, and brings them up to date with new knowledge and current affairs so as to better address and serve today's needs of the professionals. It points out the role and importance of the parameters and mechanisms that govern the interaction of contaminants with geomaterials (soil and rock mass), and also discusses their degradation in the long-run, and the consequences that follow.

**Readership:** Undergraduate and graduate students, research scholars, and professionals working in the field of Environmental Geotechnical Engineering.

<b>860pp</b>	<b>Mar 2022</b>	
<b>978-981-4583-00-8</b>	<b>US\$198</b>	<b>£160</b>
<b>978-981-4579-98-8(ebook)</b>	<b>US\$317</b>	<b>£255</b>

## RECENT DEVELOPMENTS IN STRUCTURAL HEALTH MONITORING AND ASSESSMENT—OPPORTUNITIES AND CHALLENGES

Bridges, Buildings and Other Infrastructures edited by **Achintya Haldar** (*University of Arizona, USA*) & **Abdullah Al-Hussein** (*University of Basrah, Iraq*)



This is a follow up to *Health Assessment of Engineered Structures*. It incorporates the most recent developments in health assessment and monitoring of infrastructures covering several advanced conceptual frameworks, different types of sensors, and application potentials. Opportunities and challenges in theoretical, numerical, and experimental investigations generally overlooked in the profession are discussed. Also included are various types of Bayesian filtering concepts improving the commonly used techniques.

**Readership:** Advanced undergraduate and graduate students, academic researchers and practitioners in the maintenance of infrastructures.

<b>448pp</b>	<b>Feb 2022</b>	
<b>978-981-124-300-4</b>	<b>US\$148</b>	<b>£120</b>
<b>978-981-124-301-1(ebook)</b>	<b>US\$237</b>	<b>£190</b>

## MAINTAINABILITY OF FACILITIES

Sustainable FM for Building Professionals (3rd Edition)

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

In this edition, the latest relevant codes of practices, regulations and standards are included. All chapters have been brought up to date to include contemporary sustainability concerns, such as sustainability design, construction and materials, and maintainability of green features. A new chapter on "Common Areas" has been added. Every chapter is summarized with an easy-to-use table to make the book more practical and user-friendly.

**Readership:** Practitioners and students in architecture and building management.

<b>250pp</b>	<b>Feb 2024</b>	
<b>978-981-4417-76-1</b>	<b>US\$110</b>	<b>£91</b>
<b>978-981-4417-77-8(ebook)</b>	<b>US\$176</b>	<b>£140</b>

## Analysis and Applications in Civil Engineering

Ship and Offshore Structural Mechanics - Vol 1

### NONLINEAR FINITE ELEMENT METHODS

Extreme and Accidental Conditions

by **Yong Bai** (*Zhejiang University, China*) & **Jeom Paik** (*University College London, UK*)

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

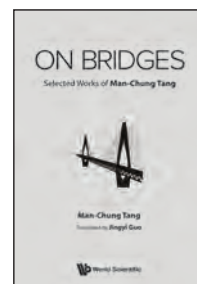
**Readership:** Researchers, professionals, academics and graduate students in civil engineering, mechanical engineering and ocean engineering.

<b>510pp</b>	<b>Jul 2023</b>	
<b>978-981-127-852-5(pbk)</b>	<b>US\$68</b>	<b>£60</b>
<b>978-981-127-739-9</b>	<b>US\$118</b>	<b>£105</b>

## ON BRIDGES

Selected Works of Man-Chung Tang by **Man-Chung Tang** (*T Y Lin International Group, China*)

Translated by: **Jingyi Guo** (*Chongqing Jiaotong University, China*)



- The book includes the bridge design concepts and innovations of a professional designer based on the writer's personal experiences in bridge engineering
- The book shows the achievements of technical innovation as well as expounds on the integration of engineering and the arts, to show how this interdisciplinary synthesis has enabled advancements in bridge building
- May help young engineers learn about and conceptualize bridge structures

**Readership:** Advanced undergraduates, graduate students, and practitioners specialising in bridge building and bridge engineering construction in civil engineering and other related fields.

<b>321pp</b>	<b>Jun 2023</b>	
<b>978-981-123-874-1</b>	<b>US\$128</b>	<b>£115</b>
<b>978-981-123-875-8(ebook)</b>	<b>US\$205</b>	<b>£165</b>

## INTRODUCTION OF SUPER-SPEED RAIL

by **Qizhou Hu** (*Nanjing University of Science and Technology, China*)

This unique compendium analyzes its operation principle, system architecture and attribute characteristics, discusses its feasibility, and discusses the global integration issues in the SSR environment. The useful reference text highlights terminologies and principles of SSR. It's a comprehensive analysis of the past, present and future of SSR from the system engineering point of view. Thereby, the novel book plays a leading role in the development of SSR worldwide.



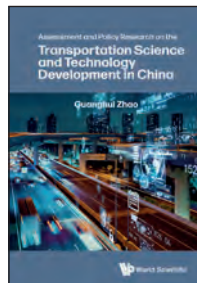
**Readership:** Researchers, professionals, academics and graduate students in civil engineering, mechanical engineering and systems engineering.

<b>170pp</b>	<b>Jun 2023</b>	
<b>978-981-127-009-3</b>	<b>US\$78</b>	<b>£70</b>
<b>978-981-127-010-9(ebook)</b>	<b>US\$125</b>	<b>£110</b>

## ASSESSMENT AND POLICY RESEARCH ON THE TRANSPORTATION SCIENCE AND TECHNOLOGY DEVELOPMENT IN CHINA

by **Guanghui Zhao** (*Guizhou University of Finance and Economics, China*)

This comprehensive book evaluates the development status, application scenarios, and future trends of China's transportation technology, with a focus on the progress and breakthroughs made in the development of China's transportation technology, the development trend of new technologies, and the impact on transportation.



**Readership:** Researchers, professionals, academics, and graduate students in civil engineering, communications, computer engineering and system engineering.

<b>420pp</b>	<b>May 2023</b>	
<b>978-981-125-488-8</b>	<b>US\$148</b>	<b>£120</b>
<b>978-981-125-489-5(ebook)</b>	<b>US\$237</b>	<b>£190</b>

Domain-Specific Bodies of Knowledge in Project Management

## BUILDING A BODY OF KNOWLEDGE IN PROJECT MANAGEMENT IN DEVELOPING COUNTRIES

edited by **George Ofori** (*London South Bank University, UK*)



- The book brings together chapters authored by eminent researchers and practitioners on Project Management in Construction. The authors are also highly knowledgeable in aspects of construction in developing countries
- Many studies have found that the root causes of failure and poor performance on construction projects in developing countries include the application of inappropriate project management approaches and techniques

**Readership:** Students and practitioners of general project management, undergraduate and postgraduate students in the fields of architecture, construction and engineering, practising architects, civil and building engineers, construction managers, quantity surveyors, and students, researchers and practitioners from both developing and industrialised countries.

<b>936pp</b>	<b>May 2023</b>	
<b>978-981-122-471-3</b>	<b>US\$198</b>	<b>£175</b>
<b>978-981-122-472-0(ebook)</b>	<b>US\$317</b>	<b>£280</b>

## HANDBOOK ON MECHANICS OF INELASTIC SOLIDS

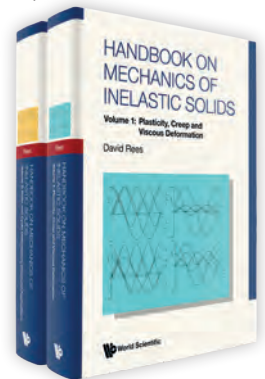
(In 2 Volumes)

Volume 1: Plasticity, Creep and Viscous Deformation

Volume 2: Finite and Cyclic Deformation; Structural Applications

by **David Rees** (*Brunel University London, UK*)

This handbook covers a number of the more recent developments regarding the mechanics of deforming solids. In recent years, much progress has been reported in the wide-ranging mechanical behaviour of solids under stress. Here the term stress in a solid arises from a number of external actions including direct tension, compression, pressure, bending, shear and torsion. Many of the topics covered are yet to find their way into the standard texts, which are often restricted to isotropic elasticity and plasticity.



In this two-volume work, what might previously have been regarded as disparate, 'specialist' topics have been placed within a wider mechanics arena to emphasise their common, underlying principles. That arena is taken generally as one of inelasticity for dealing with the essential mechanics of these phenomena. Therein, this text brings together theory, experimental data, key references, examples and exercises, particularly those that relate to the important advances in the subject, both old and new.

**Readership:** This handbook is intended for an academic readership and is designed for researchers, engineers and advanced undergraduate, graduate and post-graduate students studying or dealing with inelastic solids and/or classical mechanics.

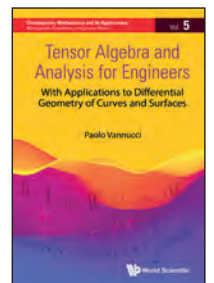
<b>1200pp</b>	<b>May 2023</b>	
<b>978-1-80061-206-8(Set)</b>	<b>US\$690</b>	<b>£550</b>
<b>978-1-80061-207-5(Set)(ebook)</b>	<b>US\$1248</b>	<b>£1000</b>

Contemporary Mathematics and Its Applications: Monographs, Expositions and Lecture Notes - Vol 5

## TENSOR ALGEBRA AND ANALYSIS FOR ENGINEERS

With Applications to Differential Geometry of Curves and Surfaces

by **Paolo Vannucci** (*Université de Versailles et Saint-Quentin-en-Yvelines, France*)



This textbook, mainly addressed to graduate students and young researchers in mechanics, is an attempt to fill the gap. Its aim is to introduce the reader to the modern mathematical tools and language of tensors, with special applications to the differential geometry of curves and surfaces in the Euclidean space. The exposition of the matter is sober, directly oriented to problems that are ordinarily found in mechanics and engineering. Also, the language and symbols are tailored to those usually employed in modern texts of continuum mechanics.

Though not exhaustive, as any primer textbook, this volume constitutes a coherent, self-contained introduction to the mathematical tools and results necessary in modern continuum mechanics, concerning vectors, 2nd- and 4th-rank tensors, curves, fields, curvilinear coordinates, and surfaces in the Euclidean space. More than 100 exercises are proposed to the reader, many of them complete the theoretical part through additional results and proofs. To accompany the reader in learning, all the exercises are entirely developed and solved at the end of the book.

**Readership:** Graduate or PhD students and young researchers in mechanics, engineering, and applied mathematics. Applicable to courses in differential geometry or tensor algebra, and advanced applied or theoretical continuum mechanics courses for engineering students.

<b>232pp</b>	<b>Mar 2023</b>	
<b>978-981-126-480-1</b>	<b>US\$88</b>	<b>£75</b>
<b>978-981-126-481-8(ebook)</b>	<b>US\$141</b>	<b>£125</b>

## SOLVED PROBLEMS IN TRANSPORT PHENOMENA

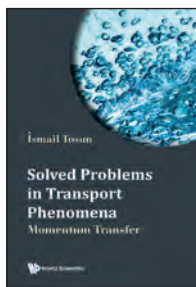
Momentum Transfer  
by **Ismail Tosun** (*Middle East Technical University, Turkey*)

*Transport Phenomena* is an umbrella term to describe the fundamental processes of momentum, energy, and mass transfer.

This unique compendium covers momentum transfer at the microscopic and macroscopic levels in the three stages of problem-solving, namely formulation, simplification, and mathematical solution. The book does not overwhelm students with a large repertoire of problems. Instead, it highlights clear and easy presentation to help students grasp the methodology in problem-solving.

**Readership:** Researchers, professionals, academics, and graduate students in chemical engineering, mechanical engineering, civil engineering and environmental engineering.

<b>276pp</b>	<b>Oct 2022</b>	
<b>978-981-125-624-0</b>	<b>US\$98</b>	<b>£80</b>
<b>978-981-125-625-7(ebook)</b>	<b>US\$157</b>	<b>£125</b>



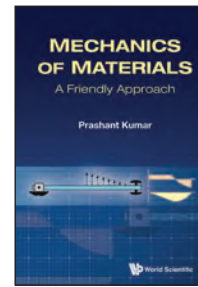
## MECHANICS OF MATERIALS

A Friendly Approach  
by **Prashant Kumar** (*Indian Institute of Technology Kanpur, India*)

This comprehensive book presents materials with a three-dimensional approach rather than two-dimensional analysis adopted by existing books. It develops the required background thoroughly before basic elements such as stress and strain tensors are formulated. The presentation is richly filled with anecdotes, illustrations and solved examples. Special care has been taken to carry out algebra and the derivations in small digestible steps.

**Readership:** Researchers, professionals, academics, undergraduate and graduate students in mechanical engineering, civil engineering, aerospace engineering, materials science and chemical engineering.

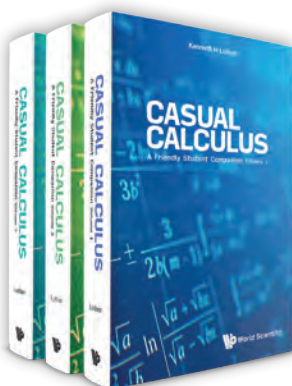
<b>544pp</b>	<b>Sep 2022</b>	
<b>978-981-124-845-0</b>	<b>US\$138</b>	<b>£120</b>
<b>978-981-124-846-7(ebook)</b>	<b>US\$221</b>	<b>£195</b>



## CASUAL CALCULUS: A FRIENDLY STUDENT COMPANION

(In 3 Volumes)  
by **Kenneth H Luther** (*Valparaiso University, USA*)

Yes, this is another Calculus book. However, it fits in a niche between the two predominant types of such texts. It could be used as a textbook, albeit a streamlined one — it contains exposition on each topic, with an introduction, rationale, train of thought, and solved examples with accompanying suggested exercises. It could be used as a solution guide — because it contains full written solutions to each of the hundreds of exercises posed inside. But its best position is right in between these two extremes. It is best used as a companion to a traditional text or as a refresher — with its conversational tone, its "get right to it" content structure, and its inclusion of complete solutions to many problems, it is a friendly partner for students who are learning Calculus, either in class or via self-study.



Exercises are structured in three sets to force multiple encounters with each topic. Solved examples in the text are accompanied by "You Try It" problems, which are similar to the solved examples; the students use these to see if they're ready to move forward. Then at the end of the section, there are "Practice Problems": more problems similar to the "You Try It" problems, but given all at once. Finally, each section has Challenge Problems — these lean to being equally or a bit more difficult than the others, and they allow students to check on what they've mastered.

The goal is to keep the students engaged with the text, and so the writing style is very informal, with attempts at humor along the way. The target audience is STEM students including those in engineering and meteorology programs.

**Readership:** Undergraduate students currently taking or refreshing themselves on Calculus.

<b>1796pp</b>	<b>Sep 2022</b>	
<b>978-981-124-264-9(Set)(pbk)</b>	<b>US\$188</b>	<b>£165</b>
<b>978-981-124-263-2(Set)</b>	<b>US\$448</b>	<b>£395</b>
<b>978-981-124-265-6(Set)(ebook)</b>	<b>US\$717</b>	<b>£575</b>

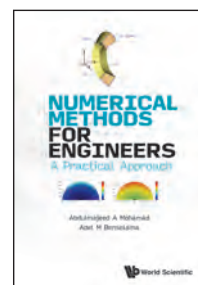
## NUMERICAL METHODS FOR ENGINEERS

A Practical Approach  
by **Abdulmajeed A Mohamad** (*University of Calgary, Canada*) & **Adel M Benseelama** (*ISAE-ENSMA, France*)

The unique compendium is an introductory reference to learn the most popular numerical methods cohesively. The text focuses on practical applications rather than on abstract and heavy analytical concepts. The key elements of the numerical methods are Taylor series and linear algebra. Based on the authors' years of experience, most materials on the text are tied to those elements in a unified manner.

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

<b>300pp</b>	<b>Sep 2022</b>	
<b>978-981-125-525-0</b>	<b>US\$88</b>	<b>£70</b>
<b>978-981-125-526-7(ebook)</b>	<b>US\$141</b>	<b>£115</b>



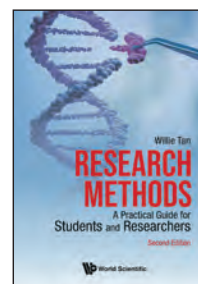
## RESEARCH METHODS

A Practical Guide for Students and Researchers (2nd Edition)  
by **Willie Tan** (*National University of Singapore*)

The book uses classic examples as exemplars. It also uses many examples from different disciplines and sectors to demonstrate and showcase the inter-connections and wider applications of research tools. The book emphasizes integration. It does not merely provide a smorgasbord of research designs, data collection methods, and ways to analyze data. Instead, it shows how one could formulate research strategies given the outcomes the researchers are required or tasked to deliver.

**Readership:** Undergraduate and graduate students across all research-based disciplines including architecture, construction, built environment, real estate, engineering, information technology, social sciences, and business.

<b>312pp</b>	<b>May 2022</b>	
<b>978-981-125-795-7(pbk)</b>	<b>US\$58</b>	<b>£45</b>
<b>978-981-125-693-6</b>	<b>US\$98</b>	<b>£80</b>
<b>978-981-125-694-3(ebook)</b>	<b>US\$157</b>	<b>£125</b>



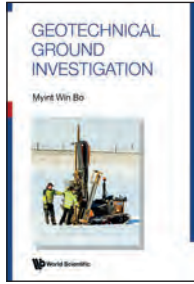
## GEOTECHNICAL GROUND INVESTIGATION

by **Myint Win Bo** (*Bo & Associates Inc., Canada*)

Geotechnical investigation, which is usually implemented to obtain baseline information of ground and groundwater, is the focus of this book. Authored by practitioner and academic who is extensively involved in geotechnical ground investigations over four continents, this book covers both large scale preliminary ground investigation and intrusive detailed investigation, as well as specialized in-situ testing to obtain advanced geotechnical parameters of soils. Both surface and borehole geophysical methods used in geotechnical investigation, including methods of sampling and tools to obtain good quality soil samples are also discussed and presented in the book.

**Readership:** Advanced undergraduate and graduate students, researchers and practitioners in the fields of geotechnical engineering and ground investigation.

<b>268pp</b>	<b>Apr 2022</b>	
<b>978-981-123-672-3</b>	<b>US\$108</b>	<b>£85</b>
<b>978-981-123-673-0(ebook)</b>	<b>US\$173</b>	<b>£135</b>



## A PRACTICAL GUIDE TO SCIENTIFIC AND TECHNICAL TRANSLATION

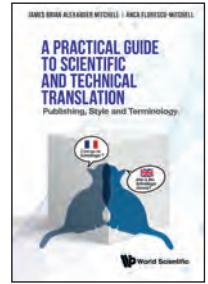
Publishing, Style and Terminology  
by **James Brian Alexander Mitchell** (*MERL-Consulting SAS, France*) & **Anca Irina Florescu-Mitchell** (*MERL-Consulting SAS, France*)

*"In this entertaining book, authors provide valuable insights and friendly advice on scientific writing and technical translation. Although the book is intended for non-English professionals, some sections may be useful for amateurish native speakers as well."* **Theyencheri Narayanan**  
**Senior Scientist, European Synchrotron Radiation Facility, France**

- Covers a wide repertoire of topics from the pure sciences (physics, chemistry, etc.) to engineering (aviation, transport, nuclear, environment, etc.), as well as patent translation
- Filled with anecdotes and advice on where to get specific guidance and how to find the best resources
- Authors have extensive experience in translating, reviewing, and authoring scientific articles and books in a multitude of disciplines (physics, chemistry, pharmaceuticals, engineering, nuclear power, environment, popular science, etc.)
- Exercises are provided to test readers' understanding, with answers provided at the end of the book

**Readership:** The book will be highly useful to scientists who are non-native speakers of English and who need to publish in English journals and apply for patents. Topics covered will appeal mostly to engineers, industrial scientists and researchers in the pure sciences. The book would also interest independent technical translators and students of translation.

<b>188pp</b>	<b>Feb 2022</b>	
<b>978-981-124-314-1(pbk)</b>	<b>US\$28</b>	<b>£25</b>
<b>978-981-124-155-0</b>	<b>US\$58</b>	<b>£50</b>
<b>978-981-124-156-7(ebook)</b>	<b>US\$98</b>	<b>£80</b>



Computational and Experimental Methods in Structures - Vol 12

## WEAR IN ADVANCED ENGINEERING APPLICATIONS AND MATERIALS

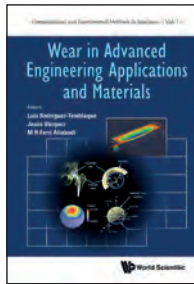
edited by **Luis Rodríguez-Tembleque** (*Universidad de Sevilla, Spain*), **Jesús Vázquez** (*Universidad de Sevilla, Spain*) & **M H Ferri Aliabadi** (*Imperial College London, UK*)

Wear is one of the main reasons mechanical components and materials become inoperable, rendering enormous costs to society over time. Estimating wear allows engineers to predict the useful life of modern mechanical elements, reduce the costs of inoperability, or obtain optimal designs (i.e. selecting proper materials, shapes, and surface finishing according to mechanical conditions and durability) to reduce the impact of wear.

*Wear in Advanced Engineering Applications and Materials* presents recent computational and practical research studying damage and wear in advanced engineering applications and materials. As such, this book covers numerical formulations based on the finite element method (FEM) — and the boundary element method (BEM) — as well as theoretical and experimental research to predict the wear response or life-limiting failure of engineering applications.

**Readership:** This book is written for PhD students in Mechanical Engineering, whose research topics are clearly governed by wear and surface damage due to mechanical interface interactions. It also serves as an update on the most recent numerical or experimental studies on wear in practicing engineering applications and/or materials.

<b>256pp</b>	<b>Apr 2022</b>	
<b>978-1-80061-068-2</b>	<b>US\$98</b>	<b>£85</b>
<b>978-1-80061-069-9(ebook)</b>	<b>US\$157</b>	<b>£135</b>



## 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. The materials sector is extremely dynamic and is providing a pipeline of new and novel solutions to meet mankind's needs in imaginative but sustainable ways. These future trends are covered and should allow the readers to develop their own opinions on how society can seek carbon neutrality whilst continuing to meet its demands for products, services, and infrastructure."* **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>Nov 2023</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>£100</b>



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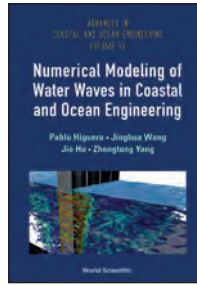


## Coastal / Ocean / Petroleum / Earthquake Engineering

Advances in Coastal and Ocean Engineering  
- Vol 13

### NUMERICAL MODELING OF WATER WAVES IN COASTAL AND OCEAN ENGINEERING

by **Pablo Higuera** (National University of Singapore, Singapore & The University of Auckland, New Zealand), **Jinghua Wang** (The Hong Kong Polytechnic University, Hong Kong), **Jie Hu** (National University of Singapore, Singapore) & **Zhengdong Yang** (Technology Centre for Offshore and Marine, Singapore)



This unique compendium introduces the field of numerical modelling of water waves. The topics included the most widely used water wave modelling approaches, presented in increasing order of complexity and categorized into phase-averaged and phase-resolving at the highest level.

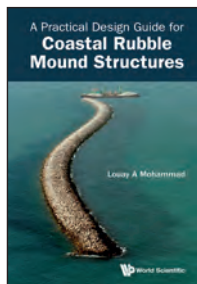
**Readership:** Researchers, professionals, academics, undergraduate and graduate students in ocean/coastal engineering and fluid mechanics.

<b>150pp</b>	<b>Apr 2023</b>	
<b>978-981-126-545-7</b>	<b>US\$78</b>	<b>£70</b>
<b>978-981-126-546-4(ebook)</b>	<b>US\$125</b>	<b>£110</b>

### A PRACTICAL DESIGN GUIDE FOR COASTAL RUBBLE MOUND STRUCTURES

by **Louay A Mohammad** (COWI A/S, Denmark)

This comprehensive compendium highlights the practical side in the design of the coastal rubble mound structures. All basic rubble mound structural elements with various special features or arrangements are discussed and presented with guidelines to the best practices.



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

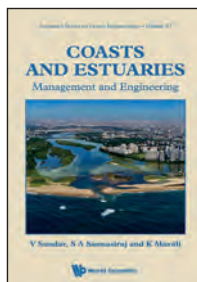
<b>400pp</b>	<b>Apr 2023</b>	
<b>978-981-126-171-8</b>	<b>US\$148</b>	<b>£120</b>
<b>978-981-126-172-5(ebook)</b>	<b>US\$237</b>	<b>£190</b>

Advanced Series on Ocean Engineering - Vol 57

### COASTS AND ESTUARIES

Management and Engineering

by **V Sundar** (Indian Institute of Technology Madras, India), **S A Sannasiraj** (Indian Institute of Technology Madras, India) & **K Murali** (Indian Institute of Technology Madras, India)



This book encompasses the engineering principles involved in field data observation, measurement, collection, and processing; the prediction of wave climate and sediment transport using measured field data; numerical modelling involving calibration and validation of the hydrodynamic and morphodynamic processes; and the study of the underlying physical processes and the application of sustainable engineering measures to combat coast- and estuary-related problems.

**Readership:** Advanced undergraduates, graduate students, planners, and design engineers dealing with coastal morphology, maritime hydraulics and sustainable development along coasts.

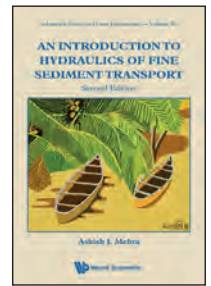
<b>412pp</b>	<b>Jan 2023</b>	
<b>978-981-126-180-0</b>	<b>US\$118</b>	<b>£105</b>
<b>978-981-126-181-7(ebook)</b>	<b>US\$189</b>	<b>£165</b>

Advanced Series on Ocean Engineering - Vol 56

### AN INTRODUCTION TO HYDRAULICS OF FINE SEDIMENT TRANSPORT

(2nd Edition)

by **Ashish J Mehta** (Nutech Consultants, Inc., USA)



In this second edition most of the chapters have been substantially updated, rewritten, and expanded. Overall, a significant change has also been made throughout by replacing sediment concentration, a unit dependent quantity at the heart of numerous descriptions, measurements, and calculations, with the nondimensional sediment volume fraction. It marks a divergence in the manner in which fine sediment transport data and calculations are conventionally presented.

**Readership:** Teachers, researchers, upper division undergraduates and graduate students in civil engineering, environmental engineering and coastal geology; Courses in sediment transport, port and harbor engineering, and applied shallow water marine physics. Recommended reading for those interested in understanding particle transport in water.

<b>1056pp</b>	<b>Dec 2022</b>	
<b>978-981-125-723-0</b>	<b>US\$158</b>	<b>£125</b>
<b>978-981-125-724-7(ebook)</b>	<b>US\$253</b>	<b>£200</b>

### WAVE DYNAMICS

edited by **Snehashish Chakraverty** (National Institute of Technology Rourkela, India) & **Perumandla Karunakar** (Anurag University, Hyderabad, India)

There are various types of waves including water, sound, electromagnetic, seismic and shock etc. These waves need to be analyzed and understood for different practical applications. This book is an attempt to consider the waves in detail to understand the physical and mathematical phenomena. A major challenge is to model waves by experimental studies.

**Readership:** This book is mainly written for the undergraduates, graduates, researchers, industry, faculties etc. all over the world as the book covers various analytical and numerical/ computational methods for solving different models governing water, sound, electromagnetic, seismic and shock waves.

<b>296pp</b>	<b>Mar 2022</b>	
<b>978-981-124-535-0</b>	<b>US\$98</b>	<b>£80</b>
<b>978-981-124-536-7(ebook)</b>	<b>US\$157</b>	<b>£130</b>

### 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.

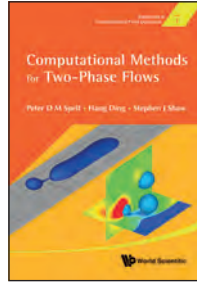
<b>200pp</b>	<b>Feb 2024</b>	
<b>978-1-84816-583-0</b>	<b>US\$106</b>	<b>£88</b>
<b>978-1-84816-584-7(ebook)</b>	<b>US\$170</b>	<b>£135</b>

## Structural Engineering

Advances in Computational Fluid Dynamics

### COMPUTATIONAL METHODS FOR TWO-PHASE FLOWS

by **Peter D M Spelt** (*Imperial College London, UK*), **Stephen J Shaw** (*Xi'an Jiaotong — University of Liverpool, Suzhou, China*) & **Hang Ding** (*University of California, Santa Barbara, USA*)



This book uniquely presents an overview of methods for the numerical simulation of a wide range of two-phase flows, aimed at a broad readership of engineers and scientists at graduate level. Given that numerous methods have been proposed recently in this field, the new book series could not have been more timely and much needed for an up-to-date overview of the advances, whilst not restricting the focus on two-phase flows or any particular method. The book is written by a team of leading experts who have contributed substantially to the development of the methods and who have also applied the concepts and theories to a diverse range of applications.

*Computational Methods for Two-Phase Flows* is self-contained, and aims to elucidate and analyze the strong relations between the various numerical methods, beyond merely giving detailed summary of the various methods. A unique enhanced feature of the book is that the sample codes that come with the book provide further benefits and ease of use to readers to implement the various numerical methods. The book is the first volume of a new book series entitled *Advances in Computational Fluid Dynamics*, published by World Scientific.

**Readership:** Scientists and engineers in the field of computational fluid dynamics of two-phase flows.

<b>350pp</b>	<b>Feb 2024</b>	
<b>978-981-4280-97-6</b>	<b>US\$138</b>	<b>£115</b>
<b>978-981-4280-98-3(ebook)</b>	<b>US\$221</b>	<b>£175</b>

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*)

Design for Six Sigma (DFSS) is a systematic approach for manufacturing companies to address product and process issues at the early development stage. Through inventive thought processes, early error elimination, and robust design, DFSS has dramatically impacted product quality and performance and increased profit. In this comprehensive volume, the four-phase IDOV — Identify-Design-Optimize-Verify — DFSS methodology is discussed in detail. The various practices from inventive design methodologies, deterministic and stochastic numerical methods, and the use of CAE simulation techniques, are mapped to the DFSS procedure. Many case studies are used to illustrate how tools are used in DFSS processes. Written by DFSS practitioners and technologists, this book is intended for any engineer to use as a reference in executing DFSS projects.

- 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.

<b>500pp</b>	<b>Feb 2024</b>	
<b>978-981-256-063-6</b>	<b>US\$115</b>	<b>£95</b>

## NONLOCAL CONTINUUM DAMAGE AND PLASTICITY

Theory and Computations

by **Rashid K Abu Al-Rub** (*Texas A&M University, USA*)

Modeling of the evolution of distributed damage and plasticity such as micro-cracking, void formation, dislocation densities, and shear bands necessitates strain-softening constitutive models. The nonlocal continuum concept has emerged as an effective means for regularizing the (initial) boundary value problems with strain softening, capturing the size effects observed in experiments, capturing small-scale deviations from local continuum models caused by material heterogeneity, and avoiding spurious localization that gives rise to pathological mesh sensitivity in numerical computations. This book discusses the integral and gradient formulations of nonlocality, computational aspects, and comparison of approaches and emphasizes recent developments in the bridging of material length scales.

- Describes the theoretical foundations of nonlocal inelasticity, its numerical formulation, and its finite element implementation
- Presents an improved fundamental grasp of the micromechanics governing material strengthening (size effects) and material failure (strain localization)
- Gives an insight on the theoretical design of micro-systems that could be used in the manufacturing of some practical applications such as sensors, actuators, microelectromechanical systems (MEMS and NEMS), microelectronic packaging, advanced composites, micromachining, welds, and functionally graded materials

**Readership:** Researchers in the academic community, national laboratories in materials and solid mechanics, companies in engineering mechanics and materials, and graduate students.

<b>600pp</b>	<b>Jan 2024</b>	
<b>978-981-281-397-8</b>	<b>US\$190</b>	<b>£158</b>
<b>978-981-281-398-5(ebook)</b>	<b>US\$304</b>	<b>£245</b>

## Transport / Traffic Engineering

### URBAN TRAFFIC ENGINEERING AND STREETSCAPE DESIGN

by **Michael G H Bell** (*The University of Sydney, Australia*), **Ioannis Kaparias** (*Imperial College London, UK*) & **Bill Mount** (*Retired, Royal Borough of Kensington and Chelsea, UK*)



This book presents a new approach to urban traffic engineering in an integrated, coherent and accessible way. The material on methods and practice is complemented by recent case studies to illustrate the challenges that confront urban traffic engineering schemes in practice. Although the history and traditions of urban traffic engineering differ greatly between countries, there is an emerging international consensus which this book tries to capture.

**Readership:** Researchers, academics, undergraduate students and post-graduate students in civil engineering and urban design.

<b>300pp</b>	<b>Feb 2024</b>	
<b>978-1-84816-897-8</b>	<b>US\$69</b>	<b>£57</b>

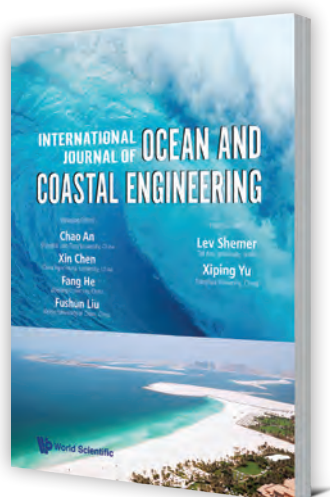


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## INTERNATIONAL JOURNAL OF OCEAN AND COASTAL ENGINEERING (IJOCE)

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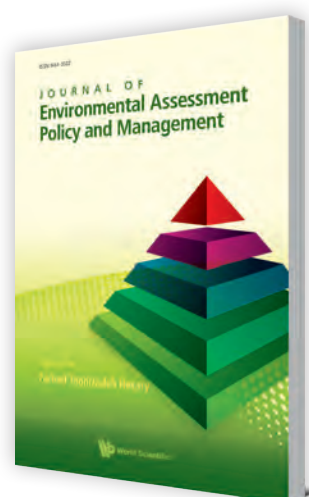
This international journal is a peer-reviewed medium for the publication of research achievements and engineering practices on all aspects of ocean and coastal engineering, including but not limited to wave dynamics and wind waves, tides and ocean currents, sea level changes, tsunamis and storm surges, 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.

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(Tokai University, Japan)

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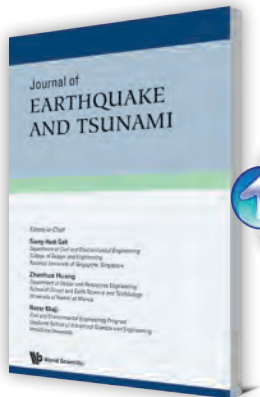
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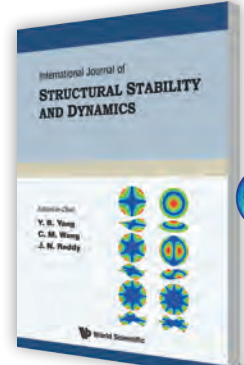
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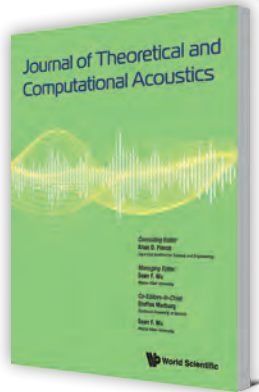
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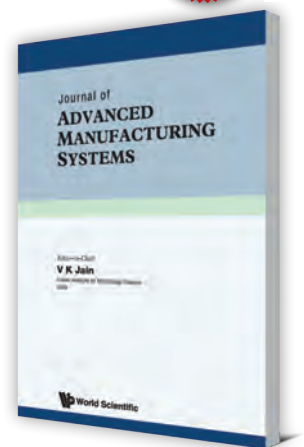
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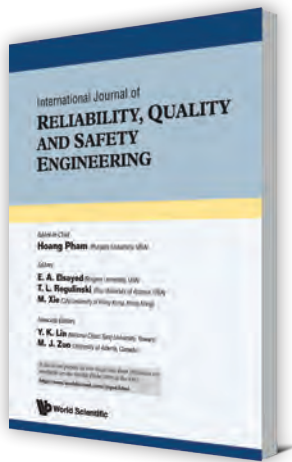
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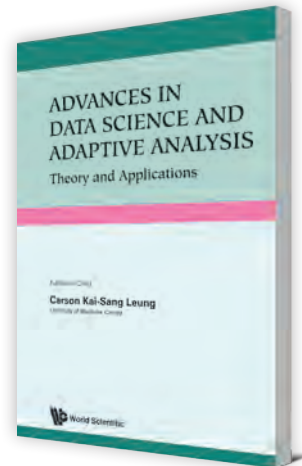
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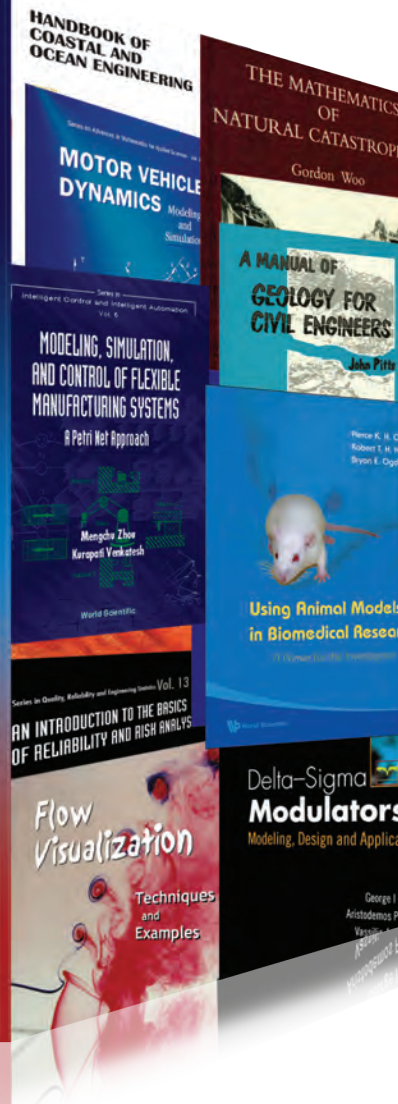
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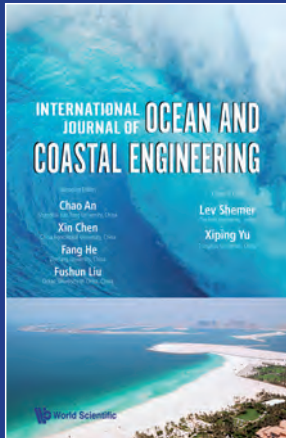
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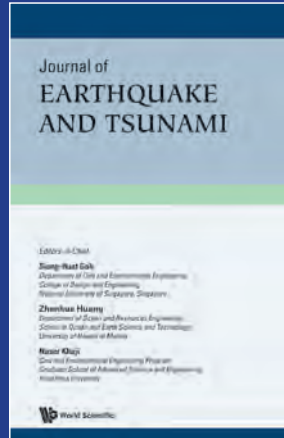
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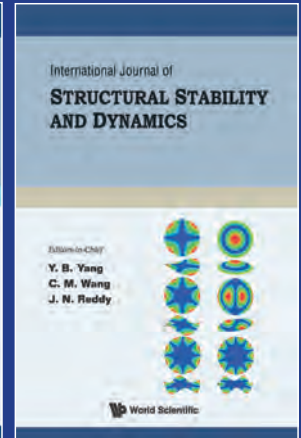
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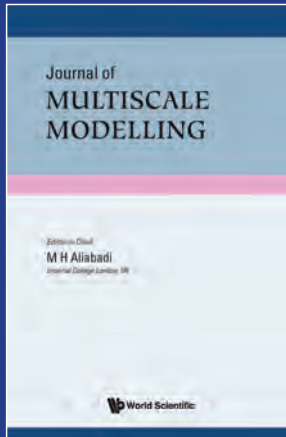
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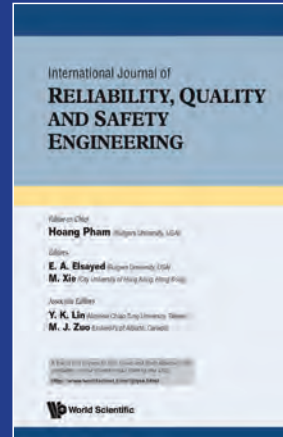
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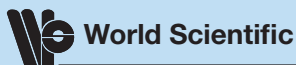
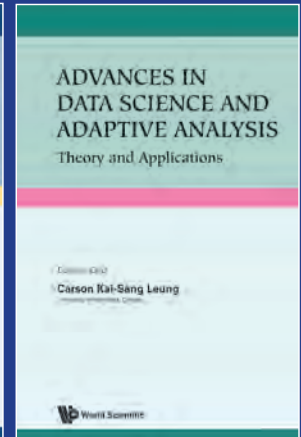
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