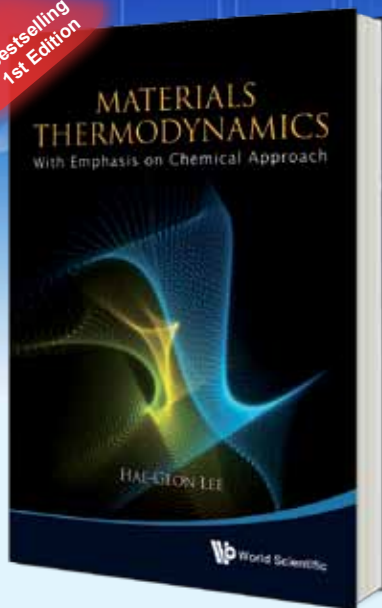


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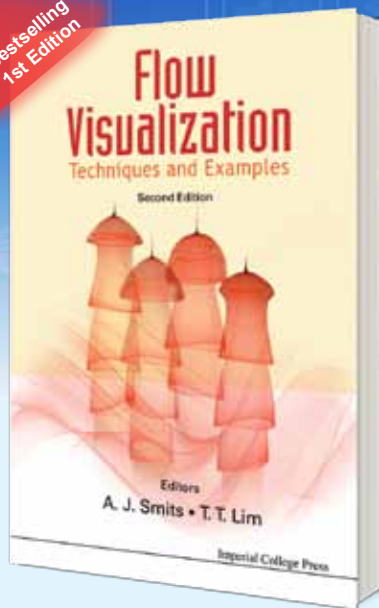
MATERIALS THERMODYNAMICS: With Emphasis on Chemical Approach (With CD-ROM)
by **Hae-Geon Lee** (POSTECH, Korea)

This book is the expanded edition of the first book entitled "Chemical Thermodynamics for Metals and Materials." This new version presents thermodynamics of materials with emphasis on the chemical approach, and is thus suitable for students in materials science and metallurgical engineering, as well as related fields such as chemical engineering and physical chemistry.

Readership: Students in materials engineering and chemical engineering.

500pp **Oct 2011**
978-981-4368-05-6 **US\$78** **£51**
978-981-4368-06-3(ebook) **US\$101**

Bestselling
1st Edition



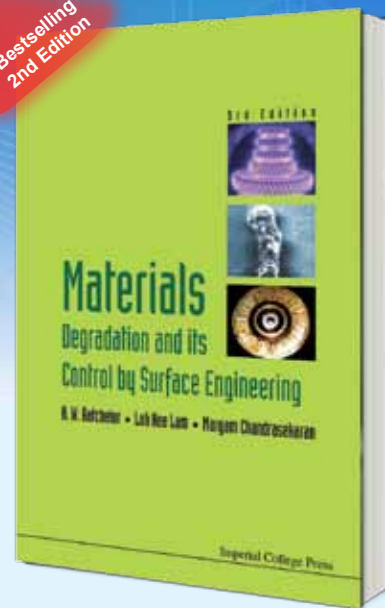
FLOW VISUALIZATION: Techniques and Examples (2nd Edition)
edited by **A J Smits** (Princeton University) & **T T Lim** (National University of Singapore)

This is the 2nd edition of the book, *Flow Visualization: Techniques and Examples*, which was published by Imperial College Press in 2000. Many of the chapters have been revised and updated to take into consideration recent changes in a number of flow visualization and measurement techniques, including an updated high quality flow gallery. Unique among similar publications, this book focuses on the practical rather than theoretical aspects. Obtaining high quality flow visualization results is, in many ways, more of an art than a science, and experience plays a key deciding role. The depth and breadth of the material will make this book invaluable to readers of all levels of experience in the field.

Readership: Undergraduate and graduate students as well as researchers in flow visualization.

400pp **Mar 2012**
978-1-84816-791-9 **US\$88** **£58**
978-1-84816-792-6(ebook) **US\$114**

Bestselling
2nd Edition



MATERIALS DEGRADATION AND ITS CONTROL BY SURFACE ENGINEERING (3rd Edition)

by **Andrew W Batchelor** (previously Monash University, Malaysia), **Nee Lam Loh** (Nanyang Technological University, Singapore), & **Margam Chandrasekaran** (Bio-Scaffold International Pte Ltd, Singapore)

This book provides a general holistic view of materials degradation without undue emphasis on aqueous corrosion with the neglect of other important topics such as liquid metal corrosion. Discussion of materials degradation is balanced by detailed description and evaluation of surface engineering as a means of managing materials degradation. The control or management of materials degradation is discussed in scientific terms with economics or financial aspects of materials degradation and surface engineering with the help of analytical models.

Readership: Engineers and scientists in materials engineering, surface science, materials science (general), materials chemistry and surface and interface chemistry.

420pp **Mar 2011**
978-1-84816-501-4 **US\$138** **£91**
978-1-84816-502-1(ebook) **US\$179**

HIGHLIGHTS

Series on Quality, Reliability and Engineering Statistics - Vol. 15
BASICS OF RELIABILITY AND RISK ANALYSIS Worked Out Problems and Solutions
by **Enrico Zio** (École Centrale Paris et Supelec, France & Politecnico di Milano, Italy), **Piero Baraldi** (Politecnico di Milano, Italy), & **Francesco Cadini** (Politecnico di Milano, Italy)

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ICP Fluid Mechanics - Vol. 2
ELEMENTS OF COMPUTATIONAL FLUID DYNAMICS
by **John D Ramshaw** (Portland State University, USA)

Pg 3

A PRAGMATIC INTRODUCTION TO THE FINITE ELEMENT METHOD FOR THERMAL AND STRESS ANALYSIS: With the Matlab Toolkit SOFEA
by **Petr Krysl** (University of California, San Diego)

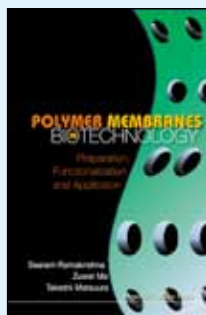
Pg 5

POLYMER MEMBRANES IN BIOTECHNOLOGY: Preparation, Functionalization and Application

by **Seeram Ramakrishna** (National University of Singapore, Singapore), **Zuwei Ma** (National University of Singapore, Singapore), & **Takeshi Matsuura** (University of Ottawa, Canada)

This book provides a concise and comprehensive introduction of polymer membranes' preparation, functionalization and applications in biotechniques including affinity membrane chromatography, membrane-based biosensor and membrane-based bioreactor.

Readership: Undergraduates, graduates and researchers in membrane science, polymer membrane preparation, affinity membrane chromatography and theories, polymer surface modification and enzyme functionalized membrane.



300pp
978-1-84816-379-9 Feb 2011 US\$88 £57
978-1-84816-380-5(pbk) US\$45 £30
978-1-84816-381-2(ebook) US\$114

Advances in Computational Fluid Dynamics - Vol. 1 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.

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

350pp
978-981-4280-97-6 Apr 2012 US\$111 £76
978-981-4280-98-3(ebook) US\$144

Series on Quality, Reliability and Engineering Statistics - Vol. 15

BASICS OF RELIABILITY AND RISK ANALYSIS Worked Out Problems and Solutions

by **Enrico Zio** (École Centrale Paris et Supelec, France & Politecnico di Milano, Italy), **Piero Baraldi** (Politecnico di Milano, Italy), & **Francesco Cadini** (Politecnico di Milano, Italy)

This exercise book serves as a complementary tool supporting the methodology concepts introduced in the books "An introduction to the basics of reliability and risk analysis" and "Computational methods for reliability and risk analysis" by Enrico Zio, in that it gives an opportunity to familiarize with the applications of classical and advanced techniques of reliability and risk analysis. All 3 books are available as a set.

Readership: Graduate students and researchers in the field of reliability and risk analysis.



220pp
978-981-4355-03-2 Apr 2011 US\$68 £44
978-981-4355-04-9(ebook) US\$88
Set
978-981-4360-68-5 US\$225 £148

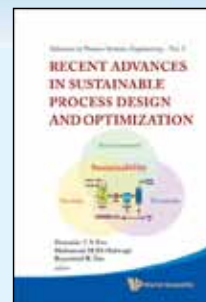
Advances in Process Systems Engineering - Vol. 3 RECENT ADVANCES IN SUSTAINABLE PROCESS DESIGN AND OPTIMIZATION

edited by **Dominic C Y Foo** (University of Nottingham Malaysia, Malaysia), **Mahmoud M El-Halwagi** (Texas A&M University, USA), & **Raymond R Tan** (De La Salle University-Manila, Philippines)

This book is a compilation of the various recently developed techniques emphasizing better chemical processes and products, with state-of-the-art contributions by world-renowned leaders in process design and optimization. It covers various areas such as grass-roots design, retrofitting, continuous and batch processing, energy efficiency, separations, and pollution prevention, striking a balance between fundamental techniques and applications.

Readership: Advanced undergraduates and graduate students in chemical process design and optimization; non-experts interested in clean process design.

900pp
978-981-4271-95-0 Aug 2011 US\$178 £123
978-981-4271-96-7(ebook) US\$231



Advances in Process Systems Engineering - Vol. 4 COMPUTATION OF MATHEMATICAL MODELS FOR COMPLEX INDUSTRIAL PROCESSES

by **Yu-Chu Tian** (Queensland University of Technology, Australia), **Tonghua Zhang** (Curtin University of Technology, Australia), **Hongmei Yao** (Curtin University of Technology, Australia), & **Moses O Tade** (Curtin University of Technology, Australia)

This book provides comprehensive case studies on numerical computing of industrial processes and step-by-step procedures for conducting industrial computing. It assumes minimal knowledge in numerical computing and computer programming, making it easy to read, understand and follow. Topics discussed include fundamentals of industrial computing, finite difference methods, the Wavelet-Collocation Method, the Wavelet-Galerkin Method, High Resolution Methods, and comparative studies of various methods.

Readership: Students, academics and practitioners in the field of chemical and industrial engineering.

500pp
978-981-4360-93-7 Aug 2012 US\$150 £99
978-981-4360-94-4(ebook) US\$195

Advances in Chemical and Process Engineering - Vol. 2 GAS HYDRATES AND FLOW ASSURANCE

by **Bahman Tohidi** (Heriot-Watt University, UK)

This definitive text, while providing an absorbing overview on gas hydrates, their properties and potential applications (for example, gas separation, storage and transport, heat storage, source of energy), also places special emphasis on flow assurance and how it can be used to prevent gas hydrates problems in oil and gas transport pipelines. Real-life case studies are included for discussion.

Readership: Postgraduates, researchers and industrialists in the oil and gas sector.

150pp
978-1-84816-594-6 Dec 2012 US\$59 £40
978-1-84816-595-3(ebook) US\$77

BIOENGINEERING FLUID MECHANICSby **Tin-Kan Hung** (*University of Pittsburgh, USA*)

This book highlights the basic concepts and equations for bioengineering flow processes. Physical concepts and meanings are emphasized while rigorous derivations are simplified. New topics included oxygen transport in membrane oxygenator and micro mixing of blood flow in capillary channels.

Readership: Researchers, professionals, academics, graduate and advanced undergraduate students in biomedical engineering, engineering mechanics, mechanical & aerospace engineering, chemical engineering and civil & environmental engineering.

200pp **Jun 2012**
978-981-4295-15-4 **US\$68** **£45**
978-981-4295-16-1(ebook) **US\$88**

Series on Quality, Reliability and Engineering Statistics

DESIGN FOR SIX SIGMA FOR ENGINEERSby **Matthew Hu** (*Wayne State University, USA*), **Kai Yang** (*Wayne State University, USA*), **Michael Sheh** (*Engineous Software Inc., USA*), & **Malik Kayupov** (*Engineous Software Inc., USA*)

In this comprehensive volume, the four-phase IDOV — Identify-Design-Optimize-Verify —Design for Six Sigma (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.

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

500pp **Apr 2012**
978-981-256-063-6 **US\$115** **£76**
978-981-283-335-8(ebook) **US\$150**

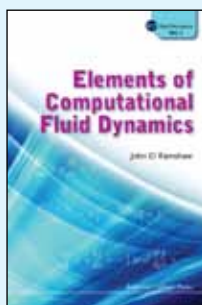
ICP Fluid Mechanics - Vol. 2

ELEMENTS OF COMPUTATIONAL FLUID DYNAMICSby **John D Ramshaw** (*Portland State University, USA*)

The approach taken is to describe the principal analytical tools required, including truncation-error and stability analyses, followed by the basic elements or building blocks of CFD, which are numerical methods for treating sources, diffusion, convection, and pressure waves.

Readership: Undergraduates, graduate students, and professionals seeking a simple brief introductory survey of the basic concepts of computational fluid dynamics.

140pp **Feb 2011**
978-1-84816-695-0 **US\$69** **£43**
978-1-84816-705-6(pbk) **US\$32** **£20**
978-1-84816-706-3(ebook) **US\$90**

**FUNDAMENTALS OF TRIBOLOGY (2nd Edition)**by **Ramsey Gohar** (*Imperial College, UK*) & **Homer Rahnejat** (*Loughborough University, UK*)

Fundamentals of Tribology deals with the fundamentals of lubrication, friction and wear. It describes the nature of rough surfaces and mechanics of contacting elastic solids and their deformation under load and friction in their relative motion. In addition there is a treatment of the rapidly emerging knowledge of tribological phenomena in lightly-loaded vanishing conjunctions (nanotribology) in natural systems and very small devices such as MEMS and high density data storage media.

Readership: Advanced undergraduates and PhD students starting their research, as well as practising engineers and scientists in industry.

450pp **Feb 2012**
978-1-84816-860-2 **US\$90** **£59**
978-1-84816-861-9(ebook) **US\$117**

SELECTED SEMICONDUCTOR RESEARCHby **Ming-Fu Li** (*Fudan University, China & National University of Singapore, Singapore*)

This unique volume assembles the author's scientific and engineering achievements of the past three decades in the areas of (1) semiconductor physics and materials, including topics in deep level defects and band structures, (2) CMOS devices, including the topics in device technology, CMOS device reliability, and nano CMOS device quantum modeling, and (3) Analog Integrated circuit design.

Readership: Researchers, professors, graduate students, postdoctorates, engineers in the areas of solid state physics, semiconductor electron devices, materials science, chemical engineering, circuit design.

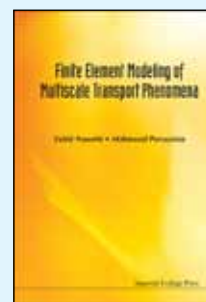
528pp **Feb 2011**
978-1-84816-406-2 **US\$140** **£91**
978-1-84816-407-9(ebook) **US\$182**

**FINITE ELEMENT MODELING OF MULTISCALE TRANSPORT PHENOMENA**by **Vahid Nassehi** (*Loughborough University, UK*) & **Mahmoud Parvazinia** (*Iran Polymer and Petrochemical Institute, Iran*)

The main scope of this book is to provide an authoritative description of recent developments in the field of finite element analysis, with a particular emphasis on the multiscale finite element modeling of transport phenomena and flow problem.

Readership: Graduate students, researchers and engineers in the field of mechanical engineering, chemical engineering, material engineering, civil engineering, applied mathematics and physics.

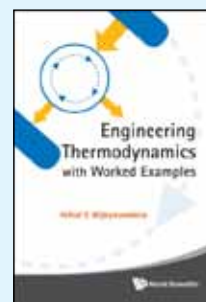
264pp **Oct 2010**
978-1-84816-429-1 **US\$73** **£51**
978-1-84816-430-7(ebook) **US\$95**

**ENGINEERING THERMODYNAMICS WITH WORKED EXAMPLES**by **Nihal E Wijesundera** (*National University of Singapore, Singapore*)

The book includes a series of worked examples in each chapter, carefully chosen to expose students to diverse applications of engineering thermodynamics. Each worked example is designed to be representative of a class of physical problems. At the end of each chapter, there are an additional 10 to 15 problems for which numerical answers are provided.

Readership: Undergraduate and graduate students in mechanical engineering, chemical engineering, civil engineering, electrical & electronic engineering, bioengineering, applied physics and thermodynamics.

724pp **Nov 2010**
978-981-4293-13-6 **US\$148** **£98**
978-981-4293-14-3(pbk) **US\$78** **£51**
978-981-4293-15-0(ebook) **US\$192**

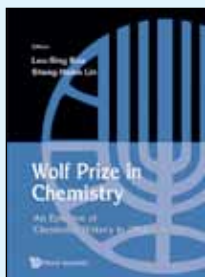


WOLF PRIZE IN CHEMISTRY: An Epitome of Chemistry in 20th Century and Beyond

edited by **Lou-Sing Kan** (*Academia Sinica, Taiwan*) & **Sheng-Hsien Lin** (*Academia Sinica, Taiwan*)

This book is the epitome of important developments in chemistry in the 20th century and beyond. It provides a historical account of the Wolf Prize in Chemistry and includes the biographies and selected papers of the distinguished recipients from 1978 to 2008 (no prize was awarded in 2009 or 2010).

Readership: Chemists, biochemists, physicists, biologists, doctors and material scientists interested in chemistry; high school students and teachers, undergraduates and advanced graduate students, science history scholars.



604pp
978-981-4280-39-6 Mar 2011
US\$180 £117



Catalytic Science Series - Vol. 10

CONCEPTS IN SYNGAS MANUFACTURE

by **Jens Rostrup-Nielsen** (*Haldor Topsoe A/S, Denmark*) & **Lars J Christiansen** (*Haldor Topsoe A/S, Denmark*)

This book provides a general overview of syngas technologies as well as an in-depth analysis of the steam reforming process. Syngas is a mixture of hydrogen and carbon oxides which can be made from hydrocarbons, coal and biomass.

Readership: Graduates and postgraduates in the field of catalysis chemistry, as well as researchers and chemical engineers.

392pp
978-1-84816-567-0 Jul 2011
US\$123 £80
978-1-84816-568-7(ebook) US\$160

BENOIT MANDELBROT: A Life in Many Dimensions

edited by **Michael Frame** (*Yale University, USA*)

This is a collection of articles, many written by people who worked with Mandelbrot, memorializing the remarkable breadth and depth of his work in science and the arts. Contributors include mathematicians, physicists, biologists, economists, and engineers, as expected; and also artists, musicians, teachers, an historian, an architect, a filmmaker, and a comic. All include stories about Benoit.

Readership: People interested in the life work of Benoit Mandelbrot. While the technical articles will be accessible mainly to scientists, the range of chapters provides material of interest to a wide range of readers. The audience range from the general public for some parts, through high school and college teachers, to research scientists.



400pp
978-981-4366-06-9 Sep 2012
US\$118 £78
978-981-4366-07-6(ebook) US\$153

MATHEMATICAL MODELING OF NON-NEWTONIAN FLUIDS WITH APPLICATIONS

by **Giovanni Galdi** (*University of Pittsburgh, USA*) & **Anne Robertson** (*University of Pittsburgh, USA*)

The objective of this book is several-fold. Firstly, it collects and describes the most significant experiments that do not find explanation in the classical Newtonian (Navier–Stokes) theory. Then, it introduces some of the most commonly used models of non-Newtonian fluid, including Reiner–Rivlin, power law, simple fluid, and Oldroyd-B models.

Readership: Graduate students and researchers in fluid mechanics.

400pp
978-981-283-803-2 Oct 2011
US\$98 £61
978-981-283-805-6(ebook) US\$127

:: Bestseller

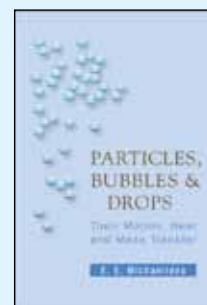
PARTICLES, BUBBLES AND DROPS: Their Motion, Heat and Mass Transfer

by **Efstathios E Michaelides** (*The University of Texas at San Antonio, USA*)

The literature on computational fluid dynamics with particles, bubbles and drops has grown at an exponential rate, giving rise to new results, theories and better understanding of the transport processes with particles, bubbles and drops. This book captures and summarizes all these advances in a unified, succinct and pedagogical way.

Readership: Researchers, practicing engineers and physicists that deal with any aspects of Multiphase Flows. It will also be of interest to academics and researchers in the general fields of mechanical and chemical engineering.

424pp
978-981-256-647-8 Apr 2006
US\$140 £92
978-981-256-648-5(pbk) US\$93 £61
978-981-277-431-6(ebook) US\$182



:: Bestseller

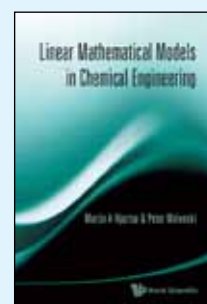
LINEAR MATHEMATICAL MODELS IN CHEMICAL ENGINEERING

by **Martin A Hjortso** (*Louisiana State University, USA*) & **Peter Wolenski** (*Louisiana State University, USA*)

This book provides a rigorous and in-depth coverage of chemical engineering model formulation and analysis as well as a text which can serve as an excellent introduction to linear mathematics for engineering students. The book places a heavy emphasis on applications to motivate the theory, but simultaneously maintains a high standard of rigor to add mathematical depth and understanding.

Readership: Graduate students, academics and researchers in chemical engineering.

524pp
978-981-279-415-4 Jan 2010
US\$121 £80
978-981-279-416-1(ebook) US\$157

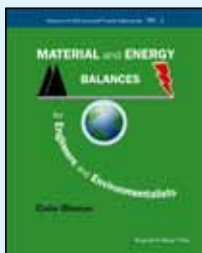


BESTSELLING BACKLIST

Advances in Chemical and Process Engineering - Vol. 1 MATERIAL AND ENERGY BALANCES FOR ENGINEERS AND ENVIRONMENTALISTS

by **Colin Oloman** (University of British Columbia, Canada)

Following a review of the basic science and economics, the text focuses on material and energy accounting in batch and continuous operations, with emphasis on generic process units, flow sheets, stream tables and spreadsheet calculations. There is a unified approach to reactive and non-reactive energy balance calculations, plus chapters dedicated to the general balance equation and simultaneous material and energy balances.



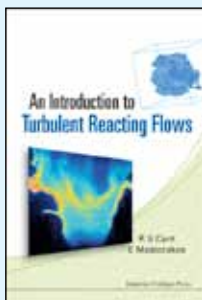
Readership: Undergraduates in engineering and industrial chemistry (and science); graduates in engineering (and science) for review of core material; professional engineers (and scientists) for review of core material; other professionals, such as those in economics, geography and the environmental or social sciences, for guidance on quantitative methods for assessing the "triple bottom line" of the industrial economy.

296pp	May 2009	
978-1-84816-368-3	US\$80	£60
978-1-84816-369-0(pbk)	US\$55	£41
978-1-84816-370-6(ebook)	US\$104	

AN INTRODUCTION TO TURBULENT REACTING FLOWS

by **R S Cant** (University of Cambridge, UK) & **E Mastorakos** (University of Cambridge, UK)

"Introducing newcomers to a complicated field, providing key entries to a vast literature by pointing out the differences and similarities between the available models, this book represents a very useful tool for approaching the different topic of turbulent reacting flows." **Zentralblatt MATH**



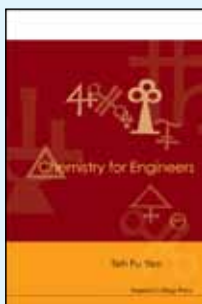
Readership: Graduate and senior undergraduate students in mechanical and chemical engineering and new researchers in turbulent reacting flows.

192pp	Dec 2007	
978-1-86094-778-0	US\$78	£51
978-1-86094-779-7(pbk)	US\$41	£27
978-1-84816-136-8(ebook)	US\$101	

CHEMISTRY FOR ENGINEERS

by **Teh Fu Yen** (University of Southern California, USA)

This book aims at bridging the concepts and theory of chemistry with examples from fields of practical application, thus reinforcing the connection between science and engineering. It deals with the basic principles of various branches of chemistry, namely, physical chemistry, inorganic chemistry, organic chemistry, analytical chemistry, surface chemistry, biochemistry, geochemistry, fuel chemistry, polymer chemistry, cement chemistry, materials chemistry, and asphalt chemistry.



Readership: Engineers, chemists, and chemical engineering students at both graduate and undergraduate levels.

576pp	Jan 2008	
978-1-86094-774-2	US\$108	£56
978-1-86094-775-9(pbk)	US\$61	£33
978-1-86094-998-2(ebook)	US\$140	

A PRAGMATIC INTRODUCTION TO THE FINITE ELEMENT METHOD FOR THERMAL AND STRESS ANALYSIS: With the Matlab Toolkit SOFEA

by **Petr Krysl** (University of California, San Diego)

This textbook provides an accessible and self-contained description of the Galerkin finite element method for the two important models of continuum mechanics, transient heat conduction and elastodynamics, from formulation of the governing equations to implementation in Matlab.



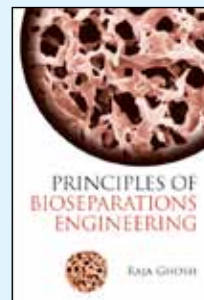
Readership: Undergraduates and graduate students, academics and researchers in mechanical, civil, chemical, materials and bioengineering majors.

292pp	Oct 2006	
978-981-256-876-2	US\$93	£61
978-981-270-411-5(pbk)	US\$46	£31
978-981-277-311-1(ebook)	US\$121	

PRINCIPLES OF BIOSEPARATIONS ENGINEERING

by **Raja Ghosh** (McMaster University, Canada)

This book discusses the underlying principles of bioseparations engineering written from the perspective of an undergraduate course. It covers membrane based bioseparations in much more detail than some of the other books on bioseparations engineering.



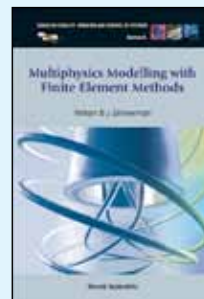
Readership: Undergraduate students in biochemical engineering, bioengineering, chemical engineering, biotechnology, and graduate students in these disciplines.

284pp	Oct 2006	
978-981-256-892-2	US\$78	£51
978-981-277-301-2(ebook)	US\$101	

Series on Stability Vibration and Control of Systems, Series A - Vol. 18 MULTIPHYSICS MODELING WITH FINITE ELEMENT METHODS

by **William B J Zimmerman** (University of Sheffield, UK)

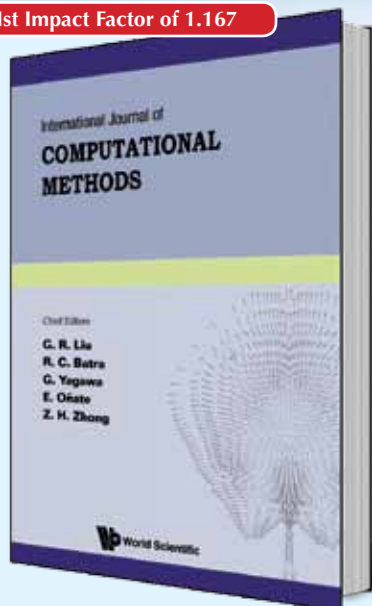
This textbook introduces the intellectual framework for modeling with Comsol Multiphysics, a package which has unique features in representing multiply linked domains with complex geometry, highly coupled and nonlinear equation systems, and arbitrarily complicated boundary, auxiliary, and initial conditions. But with this modeling power comes great opportunities and great perils.



Readership: Undergraduate and postgraduate students and researchers in chemical engineering and applied mathematics.

432pp	Oct 2006	
978-981-256-843-4	US\$89	£52
978-981-277-330-2(ebook)	US\$116	

1st Impact Factor of 1.167



International Journal of Computational Methods (IJCM)

<http://www.worldscinet.com/ijcm/>

About IJCM: Aims & Scope

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

The journal is devoted to all aspects of modern computational methods and the articles can involve theory, algorithm, programming, coding, numerical simulation and/or novel application of computational techniques to problems in engineering, science, and other disciplines related to computations.

Abstracting/Indexing: Science Citation Index Expanded (also known as SciSearch®), Journal Citation Reports/Science Edition, Zentralblatt MATH, Compendex, INSPEC, Scopus

Online Gateways: CrossRef, SwetsWise, EBSCOhost Electronic Journals Service, CNPIEC, EBSCO Publishing, OCLC FirstSearch, WorldSciNet - Mirror Site in China, Google Scholar, J-Gate, CEPIEC

Now ISI-Indexed



International Journal of Applied Mechanics (IJAM)

<http://www.worldscinet.com/ijam/>

About IJAM: Aims & Scope

The journal has as its objective the publication and wide electronic dissemination of innovative and consequential research in applied mechanics. In addition to cover the classical branches of applied mechanics, namely solid mechanics, fluid mechanics, thermodynamics, and material science, the journal also encourages contributions from the newly emerging areas such as biomechanics, electromechanics, the mechanical behavior of advanced materials, nanomechanics, and many other inter-disciplinary research areas in which the concepts of applied mechanics are extensively applied and developed.

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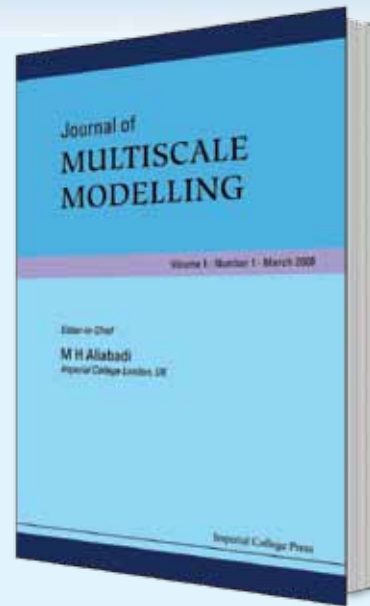
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