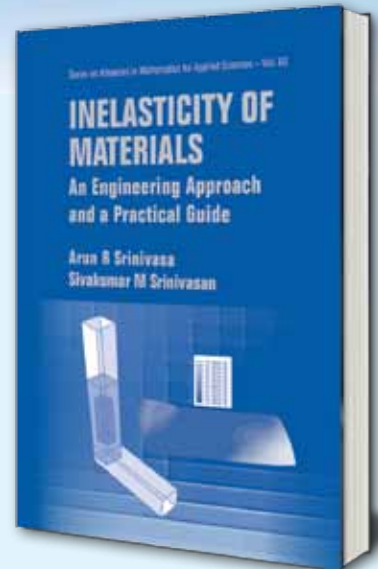
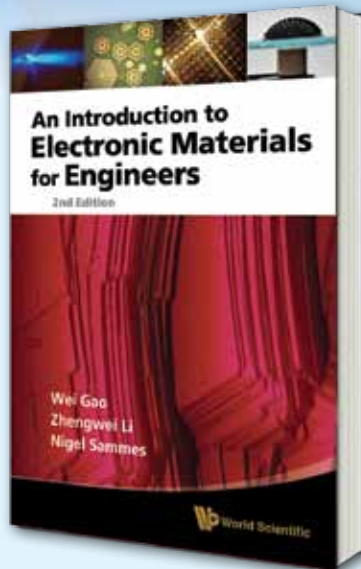
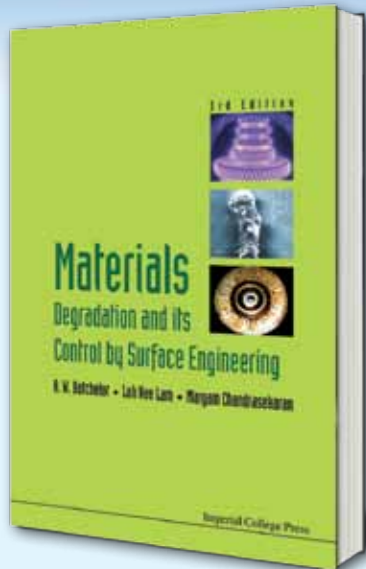


New and Forthcoming Materials Engineering 2011/12

Bestseller



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

by **Andrew Batchelor** (*Aramco, Saudi Arabia*), **Margam Chandrasekaran** (*Bio-Scaffold International Pte Ltd, Singapore*), & **Nee Lam Loh** (*Nanyang Technological University, 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.

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

450pp Jan 2011
978-1-84816-501-4 US\$138 £91
978-1-84816-502-1(ebook) US\$179

AN INTRODUCTION TO ELECTRONIC MATERIALS FOR ENGINEERS (2nd Edition)

by **Wei Gao** (*University of Auckland, New Zealand*), **Zhengwei Li** (*University of Auckland, New Zealand*), & **Nigel Sammes** (*Colorado School of Mines, USA*)

An Introduction to Electronic Materials for Engineers aims to give a basic understanding and comprehensive overview of a wide range of materials, such as conducting materials, semiconductors, magnetic materials, optical materials, dielectric materials, superconductors, thermoelectric materials and ionic materials. The new chapters added into this latest edition include thin film electronic materials, organic electronic materials and nanostructured materials. These chapters aim to reflect the new developments made in electronic materials and nanotechnology research towards the design and fabrication of modern equipment and electronic devices.

Readership: Students, professionals (engineering), non-experts interested in electronic materials.

450pp Nov 2010
978-981-4293-69-3 US\$68 £45

Series on Advances in Mathematics for Applied Sciences - Vol. 80

INELASTICITY OF MATERIALS: An Engineering Approach and a Practical Guide

by **Arun R Srinivasa** (*Texas A&M University, USA*) & **Sivakumar M Srinivasan** (*Indian Institute of Technology, Madras, India*)

This textbook builds upon the existing knowledge of elasticity and thermodynamics, and allows the reader to gain confidence in extending one's skills in understanding and analyzing problems in inelasticity. By reading this textbook and working through the assigned exercises, the reader will gain a level of comfort and competence in developing and using inelasticity models.

Readership: Mechanical, aeronautical, civil and metallurgical engineers; material scientists; biomechanists and engineers interested in inelastic/nonlinear systems.

572pp Jul 2009
978-981-283-749-3 US\$96 £66

HIGHLIGHTS

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*)

Pg 2

Engineering Materials for Technological Needs - Vol. 2

FUNCTIONAL MATERIALS: Electrical, Dielectric, Electromagnetic, Optical and Magnetic Applications (With Companion Solution Manual)
by **Deborah D L Chung**

(*State University of New York at Buffalo, USA*)

Pg 3

III-NITRIDE DEVICES AND NANOENGINEERING
edited by **Zhe Chuan Feng**
(*National Taiwan University, Taiwan*)

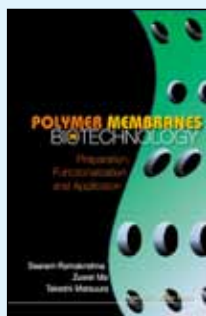
Pg 4

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	Aug 2010	
978-1-84816-379-9	US\$75	£50
978-1-84816-380-5(pbk)	US\$45	£30

Materials for Engineering - Vol. 1 CRYSTALLINE MATERIALS FOR ACTINIDE IMMOBILISATION

by **Boris E Burakov** (V G Khlopin Radium Institute, Russia), **Michael I Ojovan** (University of Sheffield, UK), & **William (Bill) E Lee** (Imperial College, UK)

This book summarises approaches and current practices in actinide immobilisation using chemically-durable crystalline materials such as ceramics and monocrystals. As a result of the increasing worldwide growth of the nuclear industry, long-lived α -emitting actinides such as Pu, Np, Am and Cm are fast becoming a serious environmental concern — actinide-bearing wastes have accumulated in different countries due to nuclear weapons production.

Readership: Undergraduates, post-graduates, researchers and specialists studying physics, chemistry, geology and environmental engineering with an interest in the welfare of planet.



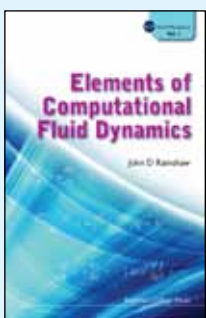
216pp	Jul 2010	
978-1-84816-418-5	US\$66	£41
978-1-84816-419-2(ebook)	US\$86	

ICP Fluid Mechanics - Vol. 2 ELEMENTS OF COMPUTATIONAL FLUID DYNAMICS

by **John D Ramshaw** (Portland State University, USA)

This book aims to present a brief introduction to the basic fundamental concepts of computational fluid dynamics (CFD) in their simplest and most transparent form. In essence it describes the ABC's of CFD, so its scope is limited to the bare essentials of the subject, and readers are directed to other sources for more advanced topics. The book should be suitable both for self-study and as a textbook, especially for use in CFD short courses, but due to its brevity much of its market will likely be as a supplement to more comprehensive CFD and fluid dynamics texts and courses.

Readership: Undergraduate, graduate students and professional in the field of computational fluid dynamics, fluid dynamics, fluid mechanics and numerical methods for partial differential equations.



150pp	Feb 2011	
978-1-84816-695-0	US\$69	£43
978-1-84816-705-6(pbk)	US\$32	£20

Computational and Experimental Methods in Structures - Vol. 4

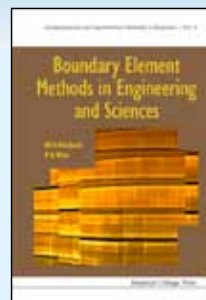
BOUNDARY ELEMENT METHODS IN ENGINEERING AND SCIENCES

by **M H Aliabadi** (Imperial College, UK) & **P Wen** (Queen Mary University of London, UK)

This book is designed to provide readers with a comprehensive and up-to-date account of the method and its application to problems in engineering and science. Each chapter provides a brief description of historical development, followed by basic theory, derivation and examples.

Readership: Graduate students, academics and researchers in engineering mechanics, materials engineering, mechanical engineering, and software engineering/programming.

450pp	Oct 2010	
978-1-84816-579-3	US\$124	£86
978-1-84816-580-9(ebook)	US\$161	



EXPLOSIVE PULSED POWER

by **Larry L Altgilbers** (US Army Space and Missile Defense Command, USA), **Jason Baird** (Missouri University of Science and Technology, USA), **Bruce L Freeman** (KTECH Corporation, USA), **Christopher S Lynch** (University of California, Los Angeles, USA), & **Sergey I Shkuratov** (Loki Incorporated, USA)

The objective of this book is to acquaint the reader with the principles of operation of explosive generators and to provide details on how to design, build, and test three types of generators: flux compression, ferroelectric, and ferromagnetic generators, which are the most developed and the most near term for practical applications. Containing a considerable amount of new experimental data that has been collected by the authors, this is the first book that treats all three types of explosive pulsed power generators.

Readership: Graduate students and researchers working in the field of pulsed power and electrical engineering.

640pp	Aug 2010	
978-1-84816-322-5	US\$135	£84
978-1-84816-323-2(ebook)	US\$176	



FRACTURE MECHANICS OF ELECTROMAGNETIC MATERIALS: Nonlinear Field Theory and Applications

by **Xiaohong Chen** (Sikorsky Aircraft Corporation, USA) & **Yiu-Wing Mai** (University of Sydney, Australia)

Fracture Mechanics of Electromagnetic Materials provides a comprehensive overview of fracture mechanics of conservative and dissipative materials, as well as a general formulation of nonlinear field theory of fracture mechanics and a rigorous treatment of dynamic crack problems involving coupled magnetic, electric, thermal and mechanical field quantities. Thorough emphasis is placed on the physical interpretation of fundamental concepts, development of theoretical models and exploration of their applications to fracture characterization in the presence of magneto-electro-thermo-mechanical coupling and dissipative effects.

Readership: Graduate students, academic researchers and engineering specialists in fracture mechanics.

300pp	Jun 2011	
978-1-84816-663-9	US\$88	£55
978-1-84816-664-6(ebook)	US\$114	

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)

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

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

500pp **Apr 2011**
978-981-256-063-6 **US\$115** **£76**
978-981-283-335-8(ebook) **US\$150**

STRUCTURAL INTEGRITY CONSIDERATIONS IN ENGINEERING DESIGN: Introduction to Structural Integrity and Basic Fatigue Design (Volume I)
 by **David W Hoepfner** (University of Utah, USA)

This book deals with the concepts of structural integrity from safe life to damage tolerance to holistic structural integrity processes, which are all part of a reliability-centered closed loop design approach. It introduces the concepts of structural integrity and the basics of fatigue design, including the development of safe life fatigue design concepts based on traditional continuum mechanics. It briefly discuss the extraneous effects on fatigue such as corrosion, fretting, wear, creep, and accidental damage and gives many examples of fatigue failures that have occurred in history and cites ways these could have been prevented and the lessons learned from such fatigue failures.

Readership: Upper-class undergraduate and graduate students, academics, and industry professionals in the field of structural integrity, and general management of reliability and quality.

500pp **May 2011**
978-1-86094-950-0 **US\$111** **£76**
978-1-86094-951-7(ebook) **US\$144**

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. 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.

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

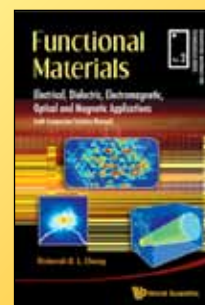
600pp **Apr 2011**
978-981-281-397-8 **US\$144** **£100**
978-981-281-398-5(ebook) **US\$187**

Editor's Pick

Engineering Materials for Technological Needs - Vol. 2
FUNCTIONAL MATERIALS: Electrical, Dielectric, Electromagnetic, Optical and Magnetic Applications (With Companion Solution Manual)
 by **Deborah D L Chung** (State University of New York at Buffalo, USA)

Functional Materials assumes that the readers have had a one-semester introductory undergraduate course on materials science. The coverage on functional materials is much broader and deeper than that of an introductory materials science course.

Readership: Undergraduate students, graduate students and professionals in most branches of engineering, specifically materials, electrical, mechanical, aerospace, chemical and civil engineering. Relevant professionals include engineers, scientists, researchers, technicians and technology managers.



364pp **Mar 2010**
978-981-4287-15-9 **US\$85** **£56**
978-981-4287-16-6(pbk) **US\$45** **£30**

ENCYCLOPEDIA OF THERMAL PACKAGING

Set 1: Thermal Packaging Techniques (A 4-Volume Set)

Set 2: Thermal Packaging Applications (A 4-Volume Set)



Set 1 - 1400pp **Sep 2011**
978-981-431-378-0 ~~**US\$1580**~~ **£1027**
978-981-431-379-7 (ebook) **US\$2054**

Introductory Offer
till Dec 2011
US\$1380 **£897**

Successful thermal packaging is the key differentiator in electronic products, as diverse as supercomputers and cell phones, and continues to be of pivotal importance in the refinement of traditional products and in the development of products for new applications. The Encyclopedia of Thermal Packaging, compiled into four multi-volume sets (*Set 1: Thermal Packaging Techniques, Set 2: Thermal Packaging Applications, Set 3: Thermal Packaging Tools, Set 4: Thermal Packaging Configurations*), will provide a comprehensive, one-stop treatment of the techniques, applications, tools, and configurations of electronic thermal packaging.

Each volume in this set is comprised of 250–350 pages and is written by world experts in the specific aspect of thermal management of electronics.

Readership: Undergraduate and graduate students studying mechanical, electrical and electronic engineering; packaging engineers, electronic product development engineers, and product managers, as well as to researchers in thermal management of electronic and photonic components and systems.

Set 2 - 1400pp **Mar 2012**
978-981-432-760-2 ~~**US\$1580**~~ **£1027**
978-981-432-766-4 (ebook) **US\$2054**

Introductory Offer
till Jun 2012
US\$1380 **£897**

The books included in “Set 1: Thermal Packaging Techniques” focus on the technology “building blocks” used to assemble a complete thermal management system and provide detailed descriptions of the underlying phenomena, modeling equations, and correlations, as well as guidance for achieving the optimal designs of individual “building blocks” and their insertion in the overall thermal solution. Specific volumes deal with coldplates, microchannel coolers, heat sinks, thermal interface materials (TIMs), thermoelectric microcoolers, and immersion cooling modules.

The books included in “Set 2: Thermal Packaging Applications” focus on the unique considerations which guide the design and operation of electronic systems in various distinct applications and address the thermal management requirements, operating environments, and best available thermal solutions for these applications. Volumes offered in Set 2 of the Thermal Packaging Encyclopedia will deal with solid state lighting, data centers, power electronics, photovoltaic arrays, and experimental measurement techniques.

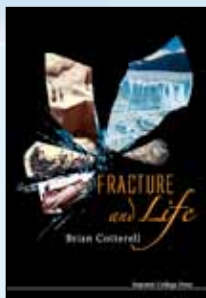
FRACTURE AND LIFE

by **Brian Cotterell** (*University of Sydney, Australia*)

This book is an interdisciplinary review of the effect of fracture on life, following the development of the understanding of fracture written from a historical perspective. After a short introduction to fracture, the first section of the book covers the effects of fracture on the evolution of the Earth, plants and animals, and man. The second section of the book covers the largely empirical control of fracture from ancient times to the end of the nineteenth century. The final section reviews the development of fracture theory as a discipline and its application during the twentieth century through to the present time.

Readership: Advanced undergraduates, graduates, post-doctoral fellows and professionals engaged in any discipline that entails an understanding of fracture.

500pp
978-1-84816-282-2 Mar 2010 US\$111 £76
978-1-84816-283-9(ebook) US\$144



Advances in Chemical and Process Engineering - Vol. 1

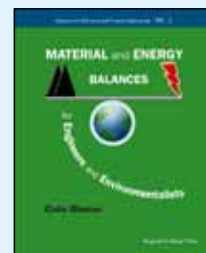
MATERIAL AND ENERGY BALANCES FOR ENGINEERS AND ENVIRONMENTALISTS

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. Seventy worked examples show the elements of process balances and connect them with the material and energy concerns of the 21st century.

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
978-1-84816-368-3 May 2009 US\$80 £60
978-1-84816-369-0(pbk) US\$55 £41



MAINTAINABILITY OF FACILITIES: For Building Professionals

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

This book focuses on spearheading the integration of maintainability, starting right from the design stage. To enable such integration, improving the knowledge of maintainability and setting maintainability benchmarks are two key issues. These objectives are fulfilled with the development of a comprehensive defect library, a material manual and a maintainability scoring system. These tools serve to define acceptable standards in design and construction practices, thus enhancing long-term maintainability of facilities.

Readership: Practitioners and students in architecture and building management.

544pp
978-981-4291-75-0 Jan 2010 US\$73 £51



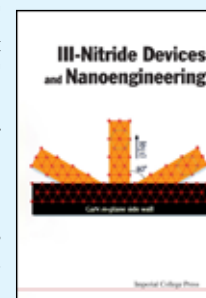
III-NITRIDE DEVICES AND NANOENGINEERING

edited by **Zhe Chuan Feng** (*National Taiwan University, Taiwan*)

Devices, nanoscale science and technologies based on GaN and related materials, have achieved great developments in recent years. New GaN-based devices such as UV detectors, fast p-HEMT and microwave devices are developed far more superior than other semiconductor materials-based devices.

Readership: Device design and processing engineers, material growers and evaluators, postgraduate students in electrical & electronic engineering and materials engineering, as well as newcomers in the GaN field.

476pp
978-1-84816-223-5 Aug 2008 US\$175 £121
978-1-84816-224-2(ebook) US\$228



Computational and Experimental Methods in Structures - Vol. 3

MULTISCALE MODELING IN SOLID MECHANICS

Computational Approaches

edited by **Ugo Galvanetto** (*Imperial College London, UK*) & **M H Ferri Aliabadi** (*Imperial College London, UK*)

This unique volume presents the state of the art in the field of multiscale modeling in solid mechanics, with particular emphasis on computational approaches. The book begins with a detailed introduction to the theories on which different multiscale approaches are based, with regards to linear Homogenisation as well as various nonlinear approaches.

Readership: Researchers and academics in the field of heterogeneous materials and mechanical engineering; professionals in aeronautical engineering and materials science.

352pp
978-1-84816-307-2 Sep 2009 US\$144 £100
978-1-84816-308-9(ebook) US\$187



Computational and Experimental Methods in Structures - Vol. 1

BUCKLING AND POSTBUCKLING STRUCTURES:

Experimental, Analytical and Numerical Studies

edited by **B G Falzon** (*Imperial College London, UK*) & **M H Aliabadi** (*Imperial College London, UK*)

This book provides an in-depth treatment of the study of the stability of engineering structures. Contributions from internationally recognized leaders in the field ensure a wide coverage of engineering disciplines in which structural stability is of importance, in particular the analytical and numerical modelling of structural stability applied to aeronautical, civil, marine and offshore structures.

Readership: Graduate students, engineers, and researchers in aerospace engineering, civil engineering, and numerical and computational mathematics.

528pp
978-1-86094-794-0 May 2008 US\$162 £112
978-1-84816-230-3(ebook) US\$211



:: Highly Recommended

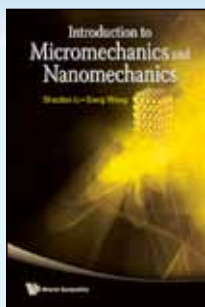
INTRODUCTION TO MICROMECHANICS AND NANOMECHANICS

by **Shaofan Li** (University of California at Berkeley, USA) & **Gang Wang** (Hong Kong University of Science and Technology, China)

"This new book furnishes a most comprehensive and self-contained introduction to the state-of-the-art knowledge of micromechanics and nanomechanics. In addition, the way that the book is organized is very logical, and the presentation is quite clear, and the examples and excises included are excellent. These make the book very suitable and competitive as an excellent textbook." *Xin-Lin Gao, Texas A&M University*

Readership: Researchers and educators in academics, first year graduate students in engineering mechanics, materials science, nanotechnology, mechanical engineering, civil engineering, and applied mechanics.

516pp	Jul 2008	
978-981-281-413-5	US\$107	£56
978-981-281-414-2(pbk)	US\$65	£33



III-NITRIDE SEMICONDUCTOR MATERIALS

edited by **Zhe Chuan Feng** (National Taiwan University, Taiwan)

This book presents the new developments and achievements in the field. The III-Nitride-based industry is building up and new economic developments from these materials are promising. It is expected that III-Nitride-based LEDs may replace traditional light bulbs to realize a revolution in lighting.

Readership: Scientists; material growers and evaluators; device design, processing engineers; postgraduate and graduate students in electrical & electronic engineering and materials engineering.

440pp	Mar 2006	
978-1-86094-636-3	US\$184	£127
978-1-86094-903-6(ebook)	US\$239	



:: Bestseller

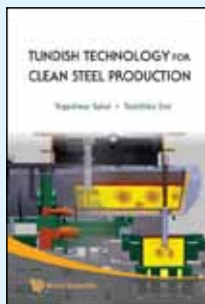
TUNDISH TECHNOLOGY FOR CLEAN STEEL PRODUCTION

by **Yogeshwar Sahai** (The Ohio State University, USA) & **Toshihiko Emi** (Institute of Research of Iron & Steel, Jiangsu/Sha-Steel, China)

This pioneering book is the first of its kind to cover all aspects of tundish technology, ranging from fundamental aspects and theory necessary for understanding the basic concepts of tundish operations to operational aspects of the tundish.

Readership: Undergraduate and graduate students in process metallurgy as well as researchers in steel and metallurgical production.

328pp	Dec 2007	
978-981-270-621-8	US\$111	£76
978-981-279-076-7(ebook)	US\$144	



:: Bestseller

Biomaterials Engineering and Processing Series - Vol. 1

ENGINEERING MATERIALS FOR BIOMEDICAL APPLICATIONS

edited by **Teoh Swee Hin** (National University of Singapore, Singapore)

The aim of this book is to provide a basic understanding on the engineering and processing aspects of biomaterials used in medical applications. Of paramount importance is the tripartite relationship between material properties, processing methods and design.

Readership: Undergraduates and postgraduates (in bioengineering, materials science and engineering, mechanical engineering, dental and orthopaedic departments), engineers, researchers, academics/lecturers and industrialists.

352pp	Oct 2004	
978-981-256-061-2	US\$164	£113
978-981-256-222-7(ebook)	US\$213	



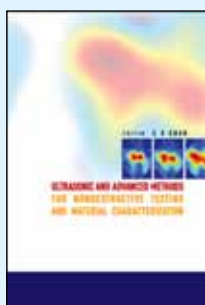
ULTRASONIC AND ADVANCED METHODS FOR NONDESTRUCTIVE TESTING AND MATERIAL CHARACTERIZATION

edited by **C H Chen** (University of Massachusetts Dartmouth, USA)

Ultrasonic methods have been very popular in nondestructive testing and characterization of materials. This book deals with both industrial ultrasound and medical ultrasound. The advantages of ultrasound include flexibility, low cost, in-line operation, and providing data in both signal and image formats for further analysis.

Readership: Academics, practitioners, researchers, physicists, engineers and computer scientists.

684pp	May 2007	
978-981-270-409-2	US\$231	£159
978-981-277-094-3(ebook)	US\$300	



:: Highly Recommended

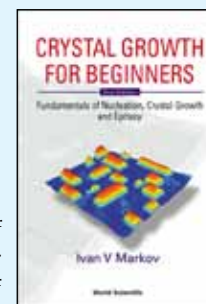
CRYSTAL GROWTH FOR BEGINNERS: Fundamentals of Nucleation, Crystal Growth and Epitaxy (2nd Edition)

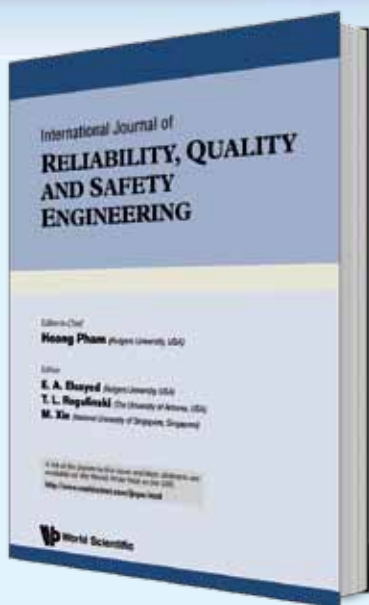
by **Ivan V Markov** (Bulgarian Academy of Sciences, Bulgaria)

This is the first-ever textbook on the fundamentals of nucleation, crystal growth and epitaxy. The reader is required to possess some basic knowledge of mathematics and physics. All formulae and equations are accompanied by examples that are of technological importance. The second revised edition includes two separate chapters dealing with the effect of the Ehrlich-Schwoebel barrier for down-step diffusion, as well as the effect of surface active species, on the morphology of the growing surfaces. In addition, many other chapters are updated accordingly.

Readership: Graduate students, academics and researchers in materials engineering, microelectronics, new materials, semiconductors and related areas.

564pp	Aug 2003	
978-981-238-245-0	US\$135	£93





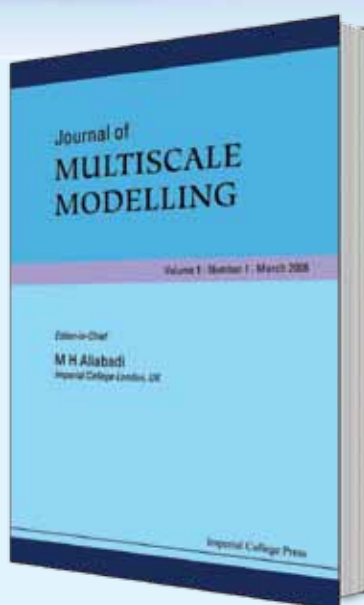
International Journal of Reliability, Quality and Safety Engineering (IJRQSE)
<http://www.worldscinet.com/ijrqse/ijrqse.shtml>

About IJRQSE: Aims & Scope

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

Abstracting/Indexing

- CSA Health and Safety Abstracts
- CSA Risk Abstracts
- CSA Aquatic Sciences and Fisheries Abstracts (ASFA)
- CSA Selected Water Resources Abstracts
- Chemical Abstracts
- EV2/Compendex



Journal of Multiscale Modelling (JMM)
<http://www.worldscinet.com/jmm/jmm.shtml>

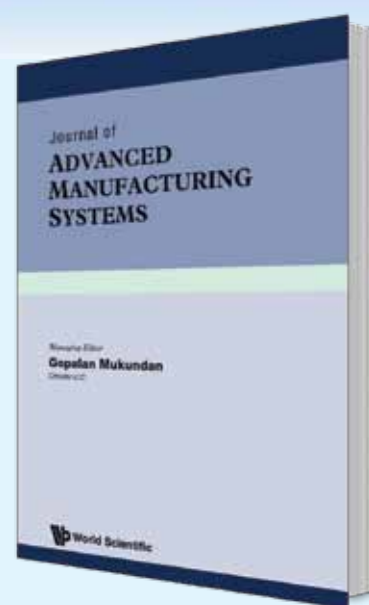
About JMM: Aims & Scope

JMM is a relatively new research field which has in a short time had a significant impact on many scientific and engineering disciplines including material science, fluid dynamics, chemistry, and biology. In these areas problems are often multiphysics and have important features at multiple scales, particularly multiple spatial scales.

JMM is an international peer-reviewed journal that presents forefront fundamental works in the above field of research. It features timely scientific reports of advances in modelling and computation, theoretical breakthroughs and also contains interesting review articles about emerging issues. It also provides a common platform for exchange of views and presentation of original papers (theoretical, computational and experimental) with a general emphasis on Multiscale issues in this rapidly developing field. Papers reporting advancement of the theory and applications of single scale problems (i.e. Nano, Micro, etc.) which pave the way for multiscale implementation are also appropriate for the journal.

Editor-in-Chief

M H Aliabadi (*Imperial College London*)



Journal of Advanced Manufacturing Systems (JAMS)
<http://www.worldscinet.com/jams/>

About JAMS: Aims & Scope

Journal of Advanced Manufacturing Systems publishes original papers pertaining to state-of-the-art research and development, product development, process planning, resource planning, applications, and tools in the areas related to advanced manufacturing.

The journal addresses:

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

Abstracting/Indexing

Compendex



For orders or enquiries, please contact any of our offices below or visit us at: www.worldscientific.com

- **USA** **World Scientific Publishing Co. Inc.**
 27 Warren Street, Suite 401-402, Hackensack, NJ 07601, USA Toll-free fax: 1 888 977 2665 Toll-free: 1 800 227 7562 E-mail: sales@wspc.com
- **UK** **World Scientific Publishing (UK) Ltd.**
 c/o Marston Book Services, PO Box 269, Abingdon, Oxon OX14 4YN, UK Fax: 44 (0) 123 546 5555 Tel: 44 (0) 123 546 5500 Email: direct.orders@marston.co.uk
- **SINGAPORE** **World Scientific Publishing Co. Pte. Ltd.**
 Farrer Road, P O Box 128, SINGAPORE 912805 Fax: 65 6467 7667 Tel: 65 6466 5775 E-mail: sales@wspc.com.sg

* Prices subject to change without prior notice