

# Essential New Engineering Titles for Your Library 2016

## AUTOMOTIVE & AEROSPACE ENGINEERING

### SAE INTERNATIONAL

#### ADVANCES IN AIRCRAFT LANDING GEAR AND ADVANCES IN AIRCRAFT BRAKES AND TIRES

Edited by Robert Kyle Schmidt

Dec 2015 260pp, two book set

9780768082616 Paperback £135.00 / €165.00

*Advances in Aircraft Landing Gear* is a collection of eleven hand-picked technical papers focusing on the significant advancements that have occurred in this field concerning numeric modeling, electric actuation, and composite materials. *Advances in Aircraft Brakes and Tires* focuses on the aircraft's interface with the ground – through its wheels, tires and brakes – a critical part of a safe and reliable operation. It presents a selection of the most relevant papers published by SAE International on these matters in the past fifteen years.

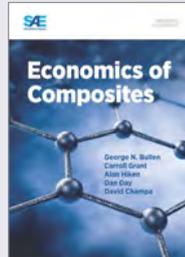
#### AERODYNAMICS OF ROAD VEHICLES Fifth Edition

Thomas Christian Schuetz

Apr 2016 1312pp

9780768079777 Hardback £210.00 / €255.00

The detailed presentation of fundamental aerodynamics principles that influence and improve vehicle design have made *Aerodynamics of Road Vehicles* the engineer's "source" for information. This fifth edition features updated and expanded information. New content covers lateral stability, safety and comfort, wind noise, high performance vehicles, helmets, engine cooling, and computational fluid dynamics.



#### ECONOMICS OF COMPOSITES

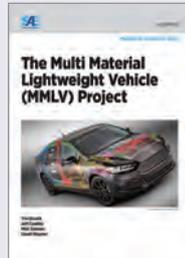
George N. Bullen et al

Dec 2015 238pp

9780768081213 Hardback

£115.00 / €140.00

Presents essential information that captures the state of the composites industry to assist engineering/technical professionals in charting a course for achieving economic success. The material characteristics of composites, their applications, and complex composites manufacturing processes depend on many factors. These are all fully considered and presented.



#### THE MULTI MATERIAL LIGHTWEIGHT VEHICLE (MMLV) PROJECT

Tim Skrzek et al

Dec 2015 140pp

9780768082234 Paperback

£210.00 / €255.00

The desire for greater fuel efficiency and reduced emissions have accelerated a shift from traditional materials to design solutions that more closely match materials and their properties with key applications. This title presents cutting edge engineering that meets future challenges in a concept vehicle with weight and life-cycle assessment savings.

### BESTSELLERS

#### AUTOMOTIVE FUELS REFERENCE BOOK Third Edition

Paul Richards

2014 868pp

9780768006384 Hardback £130.00 / €160.00

The first two editions of this title, published by SAE International in 1990 and 1995, have been best-selling definitive references for those needing technical information about automotive fuels. This long-awaited new edition has been thoroughly revised and updated, yet retains the original fundamental fuels information that readers find so useful.

#### INTERNAL COMBUSTION ENGINE HANDBOOK

Basics, Components, Systems and Perspectives

Richard van Basshuysen & Fred Schaefer

2004 811pp

9780768011395 Hardback £140.00 / €170.00

Illustrating the latest level of knowledge in engine development, paying particular attention to the presentation of theory and practice, this handbook covers all of this component's complexities, including an insightful look into the internal combustion engine's future viability.

#### RACE CAR VEHICLE DYNAMICS BOOK AND PROBLEMS, ANSWERS AND EXPERIMENTS SET

William F. Milliken & Douglas L. Milliken

2003 990pp, two book set

9780768001211 Hardback £150.00 / €185.00

This set includes *Race Car Vehicle Dynamics*, and *Race Car Vehicle Dynamics - Problems, Answers and Experiments*.

### KEY BESTSELLER

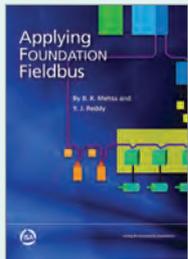
#### RACE CAR VEHICLE DYNAMICS

1995 918pp

9781560915263 Hardback £77.95 / €99.00

## INDUSTRIAL CHEMISTRY & MANUFACTURING TECHNOLOGIES

### ISA (not for sale in Asia-Pacific)



#### APPLYING FOUNDATION FIELDBUS

B.R. Mehta & Y.J. Reddy

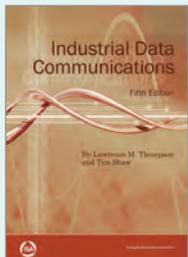
Feb 2016 338pp

9781941546710 Paperback

£120.00 / €145.00

Provides a comprehensive and practical guide to the theory, engineering, and implementation of

FOUNDATION Fieldbus in process control systems. It gives engineers the knowledge they need before referring to vendor documentation, and includes straightforward guidelines for implementing a process control system with FOUNDATION Fieldbus technology, along with some worked examples.



#### INDUSTRIAL DATA COMMUNICATIONS Fifth Edition

Lawrence M. Thompson & Tim Shaw

Nov 2015 232pp

9780876640951 Paperback

£135.00 / €165.00

As automation becomes more thoroughly networked with advances in speed, connectivity, and security, this fifth edition

provides technical professionals with little or no background in data communications the knowledge they need to succeed. The text emphasizes the practical aspects of commonly used systems, and contains a complete description of the relevant terminology, standards, and protocols.

### BESTSELLERS

### ISA (not for sale in Asia-Pacific)

#### ADVANCED PID CONTROL

Karl J. Astrom & Tore Haggjund

2006 461pp

9781556179426 Paperback £130.00 / €160.00

Gives you an in-depth look at the world of PID control. This book builds on the basics learned in *PID Controllers* but augments it through use of advanced control techniques.

#### MEASUREMENT AND CONTROL BASICS Fifth Edition

Thomas A. Hughes

2015 409pp

9780876640142 Paperback £135.00 / €165.00

Ideal for classroom use or self-study, this newly updated best-selling book has provided thousands of students, technicians, engineers, and sales people with a practical introduction to the principles, technologies, and strategies used in industrial process control.

#### SUCCESSFUL INSTRUMENTATION AND CONTROL SYSTEMS DESIGN

Second Edition

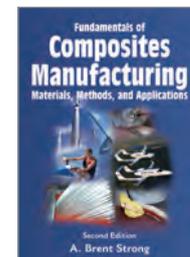
Michael D. Whitt

2012 350pp

9781936007455 Paperback £135.00 / €165.00

Describes the ideal design package and delves into the business of design engineering. It provides a roadmap to understanding the design process, the elements of a successful project, the specific issues to address in a well-designed I&C system, and the engineering products that enable practical design and successful maintenance.

### SME (not for sale in Asia-Pacific)



#### FUNDAMENTALS OF COMPOSITES MANUFACTURING

Materials, Methods, and Applications  
Second Edition

A. Brent Strong

2007 640pp

9780872638549 Hardback

£115.00 / €145.00

Describes advances, key information, case studies, and examples that can broaden your knowledge of composites materials and manufacturing methods.

#### PRECISION MACHINE DESIGN

Alexander H. Slocum

1992 800pp

9780872634923 Hardback £120.00 / €145.00

Offers a comprehensive engineering exploration of all the aspects of precision machine design-both component and system design considerations for precision machines.

**MORGAN & CLAYPOOL PUBLISHERS**

**FUNDAMENTALS OF ELECTRONICS**

**Book 2: Amplifiers Analysis and Design**

Thomas F. Schubert & Ernest M. Kim

Oct 2015 366pp  
9781627055642 Paperback £105.00 / €125.00

*Synthesis Lectures on Digital Circuits and Systems*

Describes the fundamentals of amplifier performance. Beginning with a review of two-port analysis, the first chapter introduces the modelling of the response of transistors to AC signals. The next chapter expands the discussion to multiple transistor amplifiers. The coverage of simple amplifiers is concluded with a chapter that examines power amplifiers. The final chapter focuses on feedback amplifiers.

**SPIE**

**ANALOG AND DIGITAL HOLOGRAPHY  
WITH MATLAB**

Georges T. Nehmetallah, Rola Aylo & Logan Williams

Sep 2015 528pp  
9781628416923 Hardback £135.00 / €160.00

*Press Monograph, Vol. 256*

Holography is the only truly three-dimensional imaging method available, and MATLAB has become the programming language of choice for engineering and physics students. Whereas most books solely address the theory behind these 3D imaging techniques, this monograph concentrates on the exact code needed to perform complex mathematical and physical operations.

**COMPUTED TOMOGRAPHY**

**Principles, Design, Artifacts, and Recent Advances, Third Edition**

Jiang Hsieh

Oct 2015 666pp  
9781628418255 Hardback £115.00 / €140.00

*Press Monograph, Vol. 259*

Captures the most recent advances in technology and clinical applications. New to this edition are descriptions of iterative reconstruction, statistical reconstruction, methodologies used to model the CT systems, and the searching methodologies for optimal solutions. A new section on 3D printing introduces approaches by early adopters in the area.

**NEW HORIZONS IN NANOSCIENCE AND  
ENGINEERING**

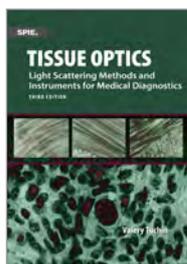
David L. Andrews & James G. Grote

Sep 2015 472pp  
9781628417951 Hardback £110.00 / €130.00

*Press Monograph, Vol. 257*

Nanomaterials and nanoscale interactions span an important and wide-ranging sector of modern science and industry. Championing developments in these fields, SPIE stages an annual forum to stimulate and support their growth: the Nanoscience and Engineering Symposium. This book represents a selection of compelling contributions from some of those innovators closely involved since the launch of this symposium.

**BESTSELLER**



**TISSUE OPTICS,  
LIGHT SCATTERING  
METHODS AND  
INSTRUMENTS  
FOR MEDICAL  
DIAGNOSTICS  
Third Edition**

Valery Tuchin  
2015 988pp  
9781628415162 Hardback  
£135.00 / €170.00

*Press Monograph, Vol. 254*

Covers the continued intensive growth in tissue optics - in particular, the field of tissue diagnostics and imaging - that has occurred since 2007.

**ASM INTERNATIONAL**

**ASM HANDBOOK SET**

(34 Volumes + Index)  
2016 9781627080262  
£6750.00 / €8850.00

The ASM Handbook series contains peer-reviewed, trusted information in every area of materials specialization. The series is the industry's best known and most comprehensive source of information on ferrous and nonferrous metals and materials technology and is packed with more than 30,000 pages of articles, illustrations, tables, graphs, specifications and practical examples for today's engineer.

Each complete set purchase includes the brand-new ASM Handbooks, Volumes 3, 5B, and 7, and the Comprehensive Index, Third Edition.

- Volume 1: Properties and Selection: Irons, Steels, and High-Performance Alloys
- Volume 2: Properties and Selection: Nonferrous Alloys and Special-Purpose Materials
- Volume 3: Alloy Phase Diagrams (available April 30, 2016)
- Volume 4: Heat Treating
- Volume 4A: Steel Heat Treating Fundamentals and Processes
- Volume 4B: Heat Treating Technologies
- Volume 4C: Induction Heating and Heat Treating
- Volume 4D: Heat Treating Irons and Steels
- Volume 5: Surface Engineering
- Volume 5A: Thermal Spray Technology
- Volume 5B: Protective Organic Coatings
- Volume 6: Welding, Brazing and Soldering
- Volume 6A: Welding Fundamentals and Processes
- Volume 7: Powder Metallurgy
- Volume 8: Mechanical Testing and Evaluation
- Volume 9: Metallography and Microstructures
- Volume 10: Materials Characterization
- Volume 11: Failure Analysis and Prevention
- Volume 12: Fractography
- Volume 13A: Corrosion: Fundamentals, Testing, and Protection
- Volume 13B: Corrosion: Materials
- Volume 13C: Corrosion: Environments and Industries
- Volume 14A: Metalworking: Bulk Forming
- Volume 14B: Metalworking: Sheet Forming
- Volume 15: Casting
- Volume 16: Machining
- Volume 17: Nondestructive Evaluation and Quality Control
- Volume 18: Friction, Lubrication, and Wear Technology
- Volume 19: Fatigue and Fracture
- Volume 20: Materials Selection and Design
- Volume 21: Composites
- Volume 22A: Fundamentals of Modeling for Metals Processing
- Volume 22B: Metals Process Simulation
- Volume 23: Materials for Medical Devices
- Comprehensive Index to ASM Handbooks, Third Edition

**ASM HANDBOOK, VOLUME 3  
Alloy Phase Diagrams**

Edited by Mark E. Schlesinger & Erik M. Mueller  
Apr 2016 800pp, illustrations  
9781627080705 Hardback £240.00 / €320.00

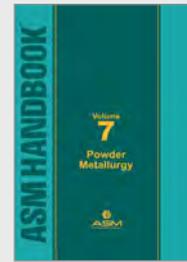
Updated and revised, this volume includes approximately 1,100 binary and 400 ternary diagrams. Diagrams cover most commercial alloy systems. New introductory information has been added, including chapters about solid solutions and phase transformations, thermodynamics, and isomorphous, eutectic, peritectic, and monotectic alloy systems.



**ASM HANDBOOK,  
VOLUME 5B  
Protective Organic Coatings**

Edited by Kenneth B. Tator  
Dec 2015 259pp  
9781627080811 Hardback  
£240.00 / €320.00

A new volume in the ASM Handbook series that addresses a need for comprehensive information on the part of industrial coating users, specifiers, and contractors.



**ASM HANDBOOK,  
VOLUME 7**

**Powder Metallurgy**  
Edited by Prasan K. Samal & Joseph W. Newkirk  
Dec 2015 850pp  
9781627080873 Paperback  
£240.00 / €320.00

The 2015 edition of the volume on Powder Metallurgy focuses on conventional powder metallurgy and includes a new section on metal injection molding. The newly developed handbook format is aimed at simplifying the understanding of process and property relationships by treating each metal/alloy family in individual divisions.

**ASM HANDBOOK VOLUMES,  
4A, 4B, 4C, 4D HEAT TREATING SET**

2014 4000pp  
9781627080736 £815.00 / €1075.00

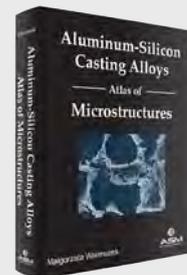
**ASM HANDBOOK, COMPLETE PRINT  
LIBRARY**

Product code: 05171G £8275.00 / €10575.00

The easiest and most cost-effective way to build a comprehensive materials library!

The Complete Print Library includes:

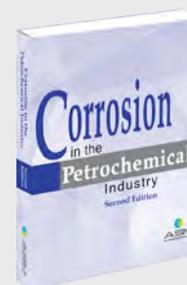
- ASM Handbook, Volumes 1-23 + Index (34 Volumes + Index)
- Engineered Materials Handbook 3 Volume Set
- ASM Desk Editions 2 Volume Set
- ASM Specialty Handbook 9 Volume Set



**ALUMINUM-SILICON  
CASTING ALLOYS**

**Atlas of Microstructures**  
Malgorzata Warmuzek  
Apr 2016 186pp  
9781627081085 Hardback  
£205.00 / €255.00

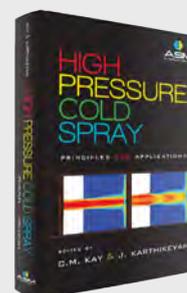
Provides any engineer or researcher who works with aluminum castings with a practical and substantive tool for the visual analysis of the microscopic images of the microstructure of the aluminum casting alloys, as examined during routine laboratory procedures.



**CORROSION IN THE  
PETROCHEMICAL  
INDUSTRY**

**Second Edition**  
ASM International  
Dec 2015 500pp  
9781627080941 Hardback  
£235.00 / €290.00

A comprehensive guide to understanding and preventing corrosion in the petrochemical industry. Written for engineers, production managers and technicians, this book explains how to select the best material for a corrosion-sensitive petrochemical application, and how to choose among various prevention methods.



**HIGH PRESSURE COLD  
SPRAY**

**Principles and Applications**  
Edited by C.M. Kay & J. Karthikeyan  
Jun 2016 300pp  
9781627080965 Hardback  
£205.00 / €255.00

Presents baseline information on design and modeling, materials science of engineered coatings, and specific applications in various high tech industries, and is also a hands-on resource for cold spray operators.



**HOT WORKING GUIDE**

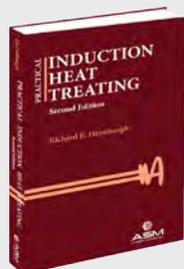
**A Compendium of Processing Maps, Second Edition**

Edited by Y.V.R.K Prasad, K.P. Rao & S. Sasidhara

2015 638pp  
9781627080910 Hardback  
£285.00 / €350.00

Provides flow stress data for hot working, processing maps with metallurgical interpretation

and optimum processing conditions for metals, alloys, intermetallics, and metal matrix composites.



**PRACTICAL INDUCTION HEAT TREATING**

**Second Edition**

Richard E. Haimbaugh

2015 379pp  
9781627080897 Hardback  
£225.00 / €275.00

Provides a quick reference source for induction heaters. This book ties-in the metallurgy, theory, and practice of induction heat

treating from a hands-on explanation of what floor people need to know.

**IGI GLOBAL**

**EMERGING RESEARCH ON BIOINSPIRED MATERIALS ENGINEERING**

Mohamed Bououdina

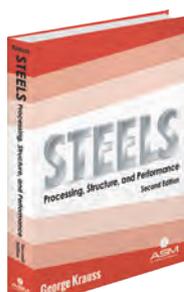
Feb 2016 441pp  
9781466698116 Hardback + free lifetime E-access  
£185.00 / €225.00

*Advances in Chemical and Materials Engineering*

Provides insight on fabrication strategies for bioinspired materials as well as a collective review of their current and prospective applications.

**BESTSELLERS**

**ASM INTERNATIONAL**



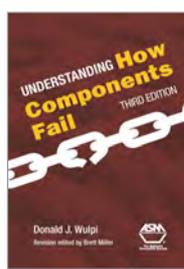
**STEELS**

**Processing, Structure, and Performance, Second Edition**

George Krauss  
2015 600pp  
9781627080835 Paperback  
£225.00 / €275.00

In this second edition, new information and references are integrated into chapters. Emphasis is still on processing, alloying, microstructure,

deformation, fracture and properties of major steel types ranging from low-carbon sheet steels, pearlitic rail and wire steels, to quench and tempered medium- and high-carbon martensitic steels.



**UNDERSTANDING HOW COMPONENTS FAIL**

**Third Edition**

Edited by Donald J. Wolpi & Brett Miller

2013 300pp  
9781627080149 Hardback  
£190.00 / €235.00

This new edition of a bestseller preserves the previous editions - focusing on the metallurgical and materials evaluation for failure mode identification. Comprehensive information covering the basic principles and practices are clearly explained. Recent technical knowledge and analysis tools have been added.

**BEGELL HOUSE, INC.**

**ANNUAL REVIEW OF HEAT TRANSFER**

Edited by Gang Chen, Vish Prasad & Yogesh Jaluria

Aug 2016 277pp  
9781567003116 Paperback £220.00 / €270.00

This annual publication consists of invited articles from experts all over the world on subjects of contemporary and lasting interest to a broad range of professionals. Of special interest are topics related to heat, momentum, and mass transport with applications in energy, microelectronics, manufacturing, biotech, and others.

**IGI GLOBAL**

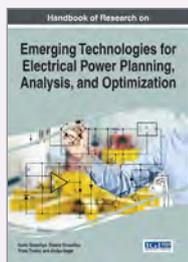
**APPLYING NANOTECHNOLOGY TO THE DESULFURIZATION PROCESS IN PETROLEUM ENGINEERING**

Edited by Tawfik A. Saleh

Nov 2015 444pp  
9781466695450 Hardback + free lifetime E-access  
£205.00 / €250.00

*Advances in Chemical and Materials Engineering*

Advances in nanotechnology offer exciting new opportunities poised to revolutionize desulfurization processes. This text explores recent developments in the field, including the use of nanomaterials for biodesulfurization and hydrodesulfurization.



**HANDBOOK OF RESEARCH ON EMERGING TECHNOLOGIES FOR ELECTRICAL POWER PLANNING, ANALYSIS, AND OPTIMIZATION**

Smita Shandilya et al

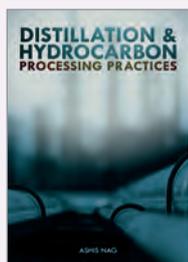
Feb 2016 410pp  
9781466699113

Hardback + free lifetime E-access £265.00 / €325.00

*Advances in Computer and Electrical Engineering*

Highlighting theoretical perspectives and empirical research, this handbook is a comprehensive reference source for researchers, practitioners, students, and professionals interested in the current advancements and efficient use in power systems.

**PENNWELL BOOKS**



**DISTILLATION AND HYDROCARBON PROCESSING PRACTICES**

Ashis Nag

Mar 2016 600pp  
9781593703431 Hardback  
£145.00 / €175.00

A practical reference guide to the design and operations of hydrocarbon processing plants

(refineries, petrochemical plants, and gas processing plants). Ashis Nag illustrates advanced practices in distillation with examples of process simulation and basic principles.

**NEW EDITION OF BESTSELLER FUNDAMENTALS OF OIL & GAS ACCOUNTING**

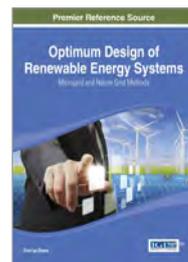
**Sixth Edition**

Charlotte Wright  
Oct 2016 750pp  
9781593703639 Hardback £130.00 / €160.00

Professor Charlotte Wright updates her indispensable accounting book for the oil and gas industry in this upcoming sixth edition. The past several years have seen significant changes in the accounting and disclosure rules for the industry. While the book has thorough updates throughout, there are new industry issues specifically addressed from the accounting perspective.

**BESTSELLERS**

**IGI GLOBAL**



**OPTIMUM DESIGN OF RENEWABLE ENERGY SYSTEMS**

**Microgrid and Nature Grid Methods**

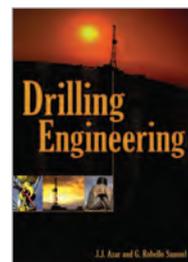
Shin'ya Obara

2014 303pp  
9781466657960  
Hardback + free lifetime E-access  
£205.00 / €250.00

*Advances in Environmental Engineering and Green Technologies*

While microgrid technology is emerging as the next generation energy supply system, renewable energy is often unstable and requires the support of conventional energy equipment. This title investigates the development of highly efficient energy storage equipment and of operation optimisation technology of compound energy systems.

**PENNWELL BOOKS**

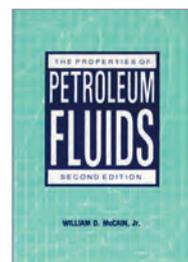


**DRILLING ENGINEERING**

J.J. Azar & G. Robello Samuel

2007 491pp  
9781593700720 Hardback  
£155.00 / €190.00

Explains the fundamentals and field practices in drilling operations. This textbook is suitable for drilling engineers, drilling supervisors and managers, and petroleum engineering students.



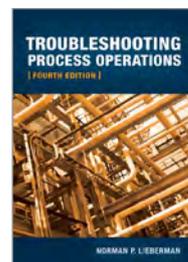
**THE PROPERTIES OF PETROLEUM FLUIDS**

**Second Edition**

William D. McCain, Jr.  
1990 548pp  
9780878143351 Hardback  
£145.00 / €175.00

This revised edition expands its scope as a petroleum fluids reference book for the practising petroleum engineer

and a college text. It offers detail on the physical properties most often used to describe behaviour equations of liquids and gases by including chapters on phase behaviour.



**TROUBLESHOOTING PROCESS OPERATIONS**

**Fourth Edition**

Norman P. Lieberman  
2009 706pp  
9781593701765 Hardback  
£145.00 / €175.00

A guide for refinery operations and maintenance. Suitable for engineers and technicians, it offers information on maintenance and design techniques.



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**AMERICAN SOCIETY OF CIVIL ENGINEERS**  
(not for sale in Asia-Pacific)

**BUILDING INFORMATION MODELING**

**Applications and Practices**

Edited by Raja R.A. Issa & Svetlana Olbina  
2015 382pp  
9780784413982 Paperback £125.00 / €150.00

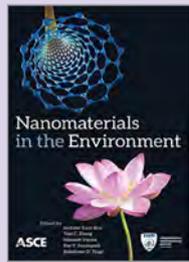
Presents a comprehensive overview of the recent advances in the application of building information modelling (BIM) across the AECO industry. The use of BIM is examined as a framework for structural design; in cost estimation; in adaptive cyber-physical systems; in construction progress monitoring; in green building; in commissioning and facilities management; in military construction; in model assessment; and in integration with augmented reality.

**FORWARD OSMOSIS**

**Fundamentals and Applications**

Edited by Ho Kyong Shon et al  
2015 518pp  
9780784414071 Paperback £165.00 / €200.00

Presents the principles and implementation challenges of low-energy desalination technology for producing potable and nonpotable water. Written by leading experts from around the world, this book describes the basic concepts of forward osmosis (FO) technology and discusses modelling and element design. Different types of draw solution are explored, and recently developed FO membranes are assessed.



**NANOMATERIALS IN THE ENVIRONMENT**

Edited by Satinder Kaur Brar et al  
Nov 2015 642pp  
9780784414088 Paperback  
£175.00 / €210.00

Offers the most current knowledge on the environmental impact of materials and products developed using nanotechnology. The 23 chapters

in this book consider the science of nanomaterials, their behaviour in the environment, risk assessment and toxicology, and the future of nanomaterials.

**IGI GLOBAL**

**CIVIL AND ENVIRONMENTAL ENGINEERING**

**Concepts, Methodologies, Tools, and Applications**

Edited by Information Resources Management Association  
Mar 2016 1700pp, 3 Volumes  
9781466696198 Hardback + free lifetime E-access  
£1740.00 / €2285.00

This is a comprehensive multi-volume publication showcasing the best research on topics pertaining to road design, building maintenance and construction, transportation, earthquake engineering, waste and pollution management, and water resources management and engineering. It offers extensive coverage of crucial concepts in the field of civil engineering and environmental engineering.

**BESTSELLERS**

**AMERICAN SOCIETY OF CIVIL ENGINEERS**

(not for sale in Asia-Pacific)

**CARBON CAPTURE AND STORAGE**  
**Physical, Chemical, and Biological Methods**

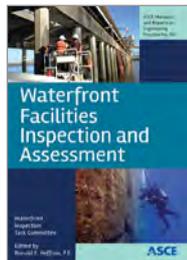
Edited by Rao Y. Surampalli et al  
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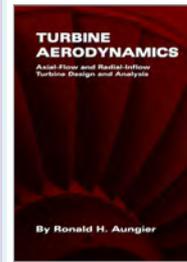
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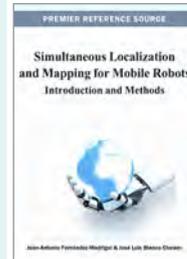


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