

# PUBLICATIONS CATALOG

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- ADVANCED MATERIALS ■ FIRE SCIENCE & TECHNOLOGY
- ENVIRONMENTAL TECHNOLOGY ■ FOOD SCIENCE
- MACHINERY/MANUFACTURING ENGINEERING ■ NURSING
- PACKAGING TECHNOLOGY ■ PAPER MAKING TECHNOLOGY
- PLASTICS/POLYMERS ■ OTHER TECHNOLOGIES
- PERIODICALS ■ RELIABILITY ENGINEERING
- UTILITY MANAGEMENT ■ MISCELLANEOUS



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2013

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# ADVANCED MATERIALS

DEStech Publications and the American Society for Composites are proud to announce the "ASC Series on Advances in Composite Materials." These volumes consist of select definitive papers from past conferences.

## **Volume 1: Dynamic Effects in Composites**

Edited by: Dahsin Liu; Managing Editor: Michael Hyer

Book comprises multiple investigations into dynamic loading's effects on composite materials. With approaches ranging from weight drop to high-velocity and high-impact testing, as well as FEM and other analytic techniques, leading researchers explain damage, delamination and other effects in a variety of composites types and configurations.

978-1-60595-072-3, February 2012, 306 pages, 6x9, SC book, **\$99.50**

## **Volume 2: Nanocomposites**

Edited by: Tsu-Wei Chou and Chin-Teh Sun; Managing Editor: Michael Hyer

Second ASC series volume concentrates on using carbon- and silicon-based nanotubes, nanofibers and graphene sheets to improve the performance and properties of composites materials. The book covers all phases of nanocomposite synthesis--from design and multiscale modeling to processing and testing. Special attention is given to problems of dispersion and interfacial bonding and to using nanoparticles to enhance the electrical and mechanical properties of composites.

978-1-60595-073-0, March 2012, 240 pages, 6x9, SC book, **\$99.50**

## **Volume 3: Fatigue of Composite Materials**

Edited by: Ronald Gibson; Managing Editor: Michael Hyer

Presents unpublished investigations of fatigue modeling, behavior and experimental characterization. Covers prediction of fatigue life and crack growth, with new data on characterization and fatigue in composite laminates, joints, graphite, carbon nanotubes and full-scale structures.

978-1-60595-085-3, August 2012, 234 pages, 6x9, SC book, **\$99.50**

## **Volume 4: Failure in Composites**

Edited by: Anthony M. Waas and Bhavani V. Sankar; Managing Editor: Michael Hyer

The fourth volume of the ASC series contains critical information on static and dynamic composite failure and how it is predicted and modeled using novel computational methods and micromechanical analysis. Covers failure mechanisms for plates, tubes, panels, noncircular cylinders, and sandwich composite damage from projectile impact, crushing, and torsion.

978-1-60595-089-1, December 2012, 282 pages, 6x9, SC book, **\$99.50**

## **Volume 5: Damage of Composites**

Edited by: Bhavani V. Sankar and Anthony M. Waas; Managing Editor: Michael Hyer

Volume 5 of the ASC series presents original and path-breaking recent work on composite damage analysis, using empirical test methods and computational models. This book was developed by the editors as a complement to Volume 4 on failure in composite materials.

978-1-60595-088-4, December 2012, 304 pages, 6x9, SC book, **\$99.50**

## **Volume 6: Manufacturing of Composites**

Edited by: Alfred C. Loos; Managing Editor: Michael Hyer

Book comprises 16 original papers on the processing and manufacturing of thermoset and thermoplastic composites. Nine chapters cover modeling and process parameters for many shapes of thermosets using RTM, VARTM and CRTM. Five chapters focus on thermoplastics, including FEM analysis, preforms, and optimizing manufacturing. The book concludes with important chapters on new processes, such as vacuum-bag-only prepregs (VBO) for out-of-autoclave (OOA) fabrication of aerospace composites.

978-1-60595-099-0, March 2013, 288 pages, 6x9, SC book, **\$99.50**

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# ADVANCED MATERIALS

**2013**

## **American Society for Composites—Twenty-eighth Technical Conference**

*Proceedings, September 9–11, 2013, State College, Pennsylvania*

Edited by: Charles Bakis

Articles cover the growth of knowledge gained from inter-disciplinary engineering and scientific research in composite materials, and discuss the unique properties of composite materials in emerging applications. Papers will focus on recent research, development and applications of composite structures and materials.

978-1-60595-107-2, Sept. 2013, CD-ROM in plastic jewel case, **\$254.50**

## **An Introduction to Healthcare and Medical Textiles**

Wen Zhong

A scientific introduction to the study, engineering and applications of medical textiles. Book moves systematically from the fundamentals of textile materials and their fabrication through biocompatibility and biodegradability to the applications of textiles in healthcare, ranging from hygiene to wound care, grafts, implantables and more. Provides analytical data on how the internal structures of various types of textiles, wovens, knits and nonwovens, are related to specific medical/biomedical end uses. The book aims to show the connection between textile properties and the design of medical and healthcare textile products.

978-1-60595-020-4, ©2013, 294 pages, 6x9, SC book, **\$129.50**

*Student price available*

## **BALLISTICS 2013**

*27th International Symposium, April 22–26, 2013, Freiburg, Germany*

Edited by: Matthias Wickert

The single most current state-of-the-art technology in Ballistics, the books contain original research papers on all phases of ballistics, topics include interior and exterior ballistics, launch dynamics, vulnerability, terminal ballistics and impact physics and explosion mechanics.

978-1-60595-106-5, April 2013, 2,000 pages, 2 Vols. w/CD, 6x9, HC book,

**\$319.50**

## **Composite Materials for Piping Applications**

Dimitris Pavlou

A comprehensive materials science book on the design, analysis, and performance of composite materials (CM) in oil, gas, water and wastewater pipe applications. Part one provides background on composite materials with a special emphasis on failure analysis, dynamic responses due to pulsed and sudden loading, as well as pressure vibration. The second part explains theoretical tools for assessing the design and lifetime performance of CM pipelines. It covers connection and support methods, damage accumulation and predictions with a focus on fatigue, creep, corrosion and UV stability. The volume discusses pressure and temperature gradients during service, for the purpose of carrying out loading calculations. Optimization methods are presented for reducing pipeline costs, and a section is devoted to pre-service and in-service quality and maintenance.

978-1-60595-029-7, April 2013, 410 pages, 6x9, HC book, **\$224.50**

## **Composite Science and Technology**

*Proceedings of the 9th International Conference (ICCST/9), April 24-26, 2013, Sorrento, Italy*

Edited by: M. Meo, et al.

Papers are written on topics including; Mechanics of composites, NDE and Structural Health Monitoring, Smart materials & structures, Impact and dynamic response, Repair and Self-Healing, Applications of composites, Multiscale modelling, Nano composites, Metal-matrix composites, Composite manufacturing, Damage, Fatigue and fracture, Green and Bio-Composites, Hybrid composites and Textile composites.

978-1-60595-113-3, June 2013, 1,250 pages, 6x9, HC book/CD, **\$199.00**

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# ADVANCED MATERIALS

**2013**

## **Design and Analysis of Structural Joints with Composite Materials**

Rikard B. Heslehurst

Book presents a comprehensive set of design and analysis equations, as well as technical steps, to enable engineers and technicians to produce and test effective structural joints using composite materials and explains how composites joints differ from ones made of metal. Techniques provided apply to joining methods in aviation, aerospace, automotive, infrastructure and recreation. The book is enhanced with details on failure analysis and ways to improve composite joining systems, as well as special sections on troubleshooting drawn from field-based case studies.

978-1-60595-034-1, March 2013, 464 pages, 6x9, HC book, **\$195.00**

## **Design, Manufacturing and Applications of Composites**

*Proceedings of the Ninth Joint Canada-Japan Workshop on Composites*

*July 30-August 1, 2012, Kyoto, Japan*

Edited by: Hiroyuki Hamada, Yuqiu Yang and Suong Van Hoa

This most recent book in the series discusses topics on composite structures and materials including; Polymer matrix composites, Metal matrix composites, Ceramic matrix composites and Concrete mix composites that cover design, manufacturing and evaluation. In addition, nano-scale materials/structures and ecomaterials are included.

978-1-60595-116-4, March 2013, 304 pages, 6x9, SC book, **\$175.00**

## **Graphene in Composite Materials**

*Synthesis, Characterization and Applications*

Nikhil Koratkar

Original monograph locates graphene within the carbon chemistry alternatives available to materials engineers and explains how it is incorporated into polymer-matrix, as well as ceramic- and metal-matrix composite materials. The book shows how various forms of graphene are synthesized and then added to polymer composites as main or hybrid nanofillers, with a focus on how graphene affects the electrical and mechanical properties of composites. Provides the theory and data required to design novel graphene-based composites with unique load-bearing, flammability and wear properties. Investigates emerging uses of graphene in films, coatings and colloidal suspensions.

978-1-60595-056-3, April 2013, 198 pages, 6x9, HC book, **\$174.50**

## **Introduction to Polymer Chemistry: A Biobased Approach**

Judit Puskas

Designed for polymer and materials engineering students, the text introduces polymer chemistry through polymers found in nature. It explains biobased polymer systems and synthetic systems by exploring the chemistry of natural polymers from plants and animals, as well as self-assembled macromolecular structures, including proteins, lignin, protamers, and fibers. Also covered are synthetic polymerization and emerging advances in green polymer chemistry.

978-1-60595-030-3, June 2013, 280 pages, 6x9, HC book, **\$124.50**

*Student price available*

## **Metal Foams: Fundamentals and Applications**

Edited by: Nihad Dukhan

The first full-scale technical treatment of an important class of engineered porous materials: metal foams. Written by a team of metal foam experts from around the world, the volume offers new, as well as fundamental, information on all aspects of metal foams, including their theory, manufacture, structure-property relationships and applications. The book explains microscopy and modeling tools that enhance the prediction and determination of metal foam properties related to fluid flow, heat transfer, sound absorption and failure analysis. Attention is given to the many techniques for manufacturing and testing metal foams and to how their microstructure can be controlled to create custom properties for applications in acoustics, bone implants, heat sinks, lightweighting and crash protection.

978-1-60595-014-3, ©2013, 458 pages, 6x9, HC book, **\$189.50**

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# ADVANCED MATERIALS

**2013**

## **Nanocoatings: Principles and Practice**

*From Research to Production*

Steven Abbott and Nigel MacDermid

A practical guide for designing and making commercial coatings to which nanoparticles are added, this volume shows how to create and recognize a nanocoating formulation with the correct functional properties. Illustrates how to make and apply a coating so that it actually works as designed. Book connects formulation and fabrication in ways conducive to the manufacture of marketable nanocoated products. Nanoparticles discussed include: metal oxides, quantum dots, CNTs, graphene, nanoclays, photoconductors and more. Book is accompanied by downloadable working spreadsheets of design formulas and coatings data.

978-1-60595-090-7, May 2013, 350 pages, 6x9, HC book, **\$179.50**

## **Nonlinear Mechanics**

*Proceedings of the Sixth International Conference (ICNM-VI)*

August 12-15, 2013, Shanghai, China

Edited by: Zhewei Zhou

Papers are written on topics including; Nonlinear continuum mechanics, Nano- and micro-mechanics, Multi-scale and multi-physics modeling, Defects, phase transitions & microstructure evolution in materials & nonlinear deformation, Structural dynamics and structure-fluid interactions, Complex fluid flow and nonlinear waves, Turbulence and nonlinear stability, Nonlinear dynamics, Interface mechanics and free boundary problems, Biomechanics, Experimental mechanics and experimental techniques and Engineering application and miscellaneous.

978-1-60595-109-6, August 2013, 1,400 pages, 6x9, SC book, **\$149.50**

## **Porous Metals and Metallic Foams (Metfoam 2013)**

*8<sup>th</sup> International Conference, June 23–26, 2013, Raleigh, North Carolina*

Edited by: Afsaneh Rabiei

Continuing the only book series on metal foam research, this text covers new technologies for porous metals and metal foams, including multiscale analysis, processing, foaming, and heat transfer, as well as advances in design and applications in porous biomaterials and nanoporous structures.

978-1-60595-114-0, November 2013, 600 pages, HC book, **\$229.00**

## **SAMPE 2013**

*Learn, Lead, Preserve*

Fully searchable CD-ROM

*58th International SAMPE Symposium, May 6-9, 2013*

Edited by: Scott W. Beckwith et al.

978-1-934551-14-1, May 2013, CD-ROM in plastic jewel case, **\$125.00**

## **Structural Health Monitoring 2013**

*A Roadmap to Intelligent Structures*

*Proceedings of the Ninth International Workshop, September 10-13, 2013, Stanford University*

Edited by: Fu-Kuo Chang

Book and searchable CD-ROM form a guide to research and technologies that contribute to improving structural health monitoring (SHM), including actuators, multifunctional materials, networks and systems, signal processing, prognostics/CBM+, validation, certification and more. Special attention is given to SHM in military aircraft, civil infrastructure, space vehicles, and medical applications.

978-1-60595-115-7, Sept. 2013, 2,200 pages, 2 Vols. w/CD, 6x9, HC book, **\$309.00**

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# ADVANCED MATERIALS

**2013**

## **Sustainable Composite and Advanced Materials**

Anil Netravalli and Christopher Pastore

Technical volume shows how the design and mechanics of composite materials are transferred to the development, testing and applications of materials fabricated in whole or in part from renewable resources. The book provides scientific details on how plant-based and recycled materials are incorporated as fibers, resins and additives into traditional and multifunctional composites. Explains testing, modeling and applications, particularly in architecture, civil engineering and transportation.

978-1-60595-111-9, October 2013, 232 pages, 6x9, HC book, **\$168.50**

## **Thermal Conductivity 31/Thermal Expansion 19**

*Proceedings of the 31st International Thermal Conductivity Conference and the 19th International Thermal Expansion Symposium, June 26-30, 2011*

Edited by: László Kiss et al.

A new volume has just been added to the ITCC/ITES book series on thermal conductivity. Papers include applications related to thermophysical properties, measurement methods, equipment, processes, theory, and new developments. In addition to the traditional topics, articles include: green-energy applications, energy conservation, with new improved insulations and research related to global warming.

978-1-60595-055-6, May 2013, 340 pages, 6x9, HC book, **\$159.50**

## **The Waterborne Coatings Symposium**

*40th Annual International Waterborne, High-Solids, and Powder Coatings Symposium*

Edited by: James W. Rawlins and Robson F. Storey

Latest in the waterborne coatings series, this volume comprises 34 original papers on all phases of waterborne coatings, including UV curing, biobased coatings, polymer chemistry and processing, additives and pigmentation. Polymer chemistry is presented to improve processing of waterborne coatings and their adhesion to wood, metal and plastic surfaces under a range of environmental conditions. New information is provided on testing, nanoparticles, tank coatings, and specialized colorants.

978-1-60595-105-8, February 2013, 537 pages, 8.5 x11, SC book, **\$185.00**

**2012**

## **American Society for Composites—Twenty-seventh Technical Conference held jointly with 15th US-Japan Conference on Composite Materials and ASTM-D30 Meeting Proceedings, October 1-3, 2012, Arlington, Texas**

Edited by: Wen S. Chan, Seiichi Nomura and Dragos-Stefan Dancila

Conference theme is "Composites for a Sustainable World." Papers will focus on recent research, development and applications of composite structures and materials.

978-1-60595-076-1, October 2012, CD-ROM in plastic jewel case, **\$254.50**

## **Asphalt Paving Technology 2012**

*Volume 81, Journal of the Association of Asphalt Paving Technologists*

Edited by: Eugene L. Skok

Presents over 30 new, refereed and not previously published research reports on all areas of asphalt technology including mixing, mixture elements, and testing. Offers new solutions to production and scale-up problems in asphalt plants and original information on asphalt research in Latin America. Subjects investigated include: photocatalytic asphalt; cracking resistance; fracture properties; RAP aggregate; high polymer mixtures; longitudinal joints; asphalt concrete; and GB5 mix design.

978-1-60595-100-3, Dec. 2012, 855 pages, 6x9, HC book/CD-ROM, **\$195.00**

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# ADVANCED MATERIALS

**2012**

## **Fatigue Behaviour of Fiber Reinforced Polymers**

*Experiments and Simulations*

Edited by: Wei-Xing Yao, Jacques Renard and Norbert Himmel

Book is organized around new experiments in and modeling of fatigue and its effects over a range of composite materials subjected to multiple mechanical and thermal stresses. An objective of the investigations discussed is to explain failure mechanisms and improve long-term loading prediction and performance. Chapters in the book are edited and refereed presentations made at the most recent ICFC5 conference, held in Nanjing, China.

978-1-60595-091-4, December 2012, 291 pages, 8x10, HC book, **\$119.50**

## **Introduction to Nonwovens Technology**

*Engineering with Fibers Series*

Subhash Batra and Behnam Pourdeyhimi

Provides a systematic step-by-step explanation of virtually all processes that integrate relevant raw materials into finished nonwovens for different end uses. The book explains the connection between the structure of nonwovens and the specialized, as well as still evolving, technologies used to produce them—from simple roll goods to nanoscale webs and fiberwebs. The unified treatment in the book is meant to serve the needs of engineering and technology professionals. For students and instructors, the text also offers reviews of basic chemistry, polymer physics and heat transfer concepts, which are linked to processing and design information. Problems and exercises are presented for classroom study and individual practice.

978-1-60595-037-2, ©2012, 366 pages, 6x9, HC book, **\$169.50**

*Student price available*

## **Nanomaterials in Concrete**

*Advances in Protection, Repair, and Upgrade*

Henry E. Cardenas

The book presents original work on how nanomaterials are applied to concrete through electromutagenic processes, which modify the microstructure of concrete materials in situ without changing their dimensions or appearance. The first section focuses on nanoconstruction methods as defined by nanomaterial reactions, chemical assembly strategies, specific phase formations and electric field configurations. The book then presents applications of nanomaterials processing, including porosity reduction, strength enhancement and durability. A section on electromutagenics builds on the previous concepts to introduce opportunities for radical changes to concrete microstructures and the macroproperties that depend upon them. The final section offers engineering details on set-up, mix materials, execution, and validation.

978-1-60595-050-1, ©2012, 190 pages, 6x9, HC book, **\$179.50**

## **Nanoscience and Nanomaterials**

*Synthesis, Manufacturing and Industry Impacts*

Wei-Hong Zhong, Bin Li, Russell G. Maguire, Vivian T. Dang, Jo Anne Shatkin,

Gwen M. Gross and Michael C. Richey

A comprehensive account of how nanomaterials are synthesized and processed, this book presents the theory and technologies of producing nano-based materials, particularly nanocomposites, for various applications. The book moves from a technical review of how nanomaterials are synthesized in small batches to a consideration of the practical problems faced by industry when nano-based materials are introduced into product manufacturing.

978-1-60595-013-6, ©2012, 310 pages, 6x9, HC book, **\$149.50**

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# ADVANCED MATERIALS

## 2012

### **Nanotechnologies for Solubilization and Delivery in Foods, Cosmetics and Pharmaceuticals**

Edited by: Nissim Garti and Idit Amar-Yuli

Demonstrates how vehicles for delivering bioactive ingredients through a variety of oral, transdermal, buccal and mucosal routes, can be synthesized by nanolevel manipulation of colloidal systems, proteins, peptides, liquid crystalline phases, organogels and dendrimers. Special attention is given to the modification of mesophases in micellar and liquid crystal systems, which are shown to be productive templates and chemical nanoreactors for uniquely structured nanocarriers. The information presented in this book is applicable to the design of micro- and nanolevel delivery systems with improved targeting, more efficient controlled release, and superior in vivo penetration into dermal and cellular structures.

978-1-60595-016-7, ©2012, 401 pages, 6x9, HC book, **\$209.50**

### **Plants and Mechanical Motion**

*A Synthetic Approach to Nastic Materials and Structures*

Edited by: Norman Wereley and Janet M. Sater

Beginning with the basics of plant motion, this book explains technologies for translating plant-like movements to new adaptive materials, with explicit reference to helicopter and aeronautic applications. Part one focuses on energy transport strategies using transport protein pressurization, ion intercalation, electroosmosis/electromigration and closed-cell gas generation. Part two concentrates on the mechanics and applications of fluidic muscle-like materials modeled on fibrillar plant tissue in manipulatable arms, soft robotics, and morphing aeronautical structures, specifically helicopters. Each chapter covers analytical models, test results, design and troubleshooting.

978-1-60595-043-3, ©2012, 274 pages, 6x9, HC book, **\$169.50**

## **SAMPE 2012**

### **Connecting the Advanced Materials Community**

*Fully searchable CD-ROM, 57th International SAMPE Symposium, May 21-24, 2012*

Edited by: Scott W. Beckwith et al.

978-1-934551-12-7, ©2012, CD-ROM in plastic jewel case, **\$125.00**

### **The Waterborne Coatings Symposium**

*39th Annual International Waterborne, High-Solids, and Powder Coatings Symposium*

Edited by James W. Rawlins and Robson F. Storey

This volume contains dozens of original investigations into the materials, chemistry, formulation and applications of waterborne coatings. Chapters focus on technologies for improving the performance and processability of coatings in themselves and as adhered to metals and plastics. Novel chemistry is explained demonstrating the link between polymeric structure and superior coating properties. Attention is given to emerging developments in stimuli-response coatings, nanoparticles and dispersion, and new testing techniques.

978-1-60595-074-7, ©2012, 647 pages, 8.5 x11, SC book, **\$175.00**

## 2011

### **Advances in Heterogeneous Material Mechanics (ICHMM-2011)**

Edited by: J. Fan, J. Zhang, H. Chen and Z.H. Jin

This important book contains 284 original and not previously published research papers on all phases of heterogeneous materials. The comprehensive nature of the book is revealed in its nine sections: Nanomechanics and nanostructure; Micromechanics and mesomechanics; Multiscale modeling and scale effects; Multi-physics modeling; Microstructure-property relations; Plasticity and creep; Damage and failure; Material design and structure behavior; and Biomaterials.

978-1-60595-054-9, ©2011, 1,204 pages, 6x9, SC book, **\$159.00**

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# ADVANCED MATERIALS

**2011**

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## **American Society For Composites—Twenty-sixth Technical Conference**

*The Second Joint US-Canada Conference on Composites Proceedings, September 26-28, 2011, Montreal, Quebec, Canada*

Edited by: Suong Hoa, Michael Hyer, Ozden Ochoa and Mehdi Hojjati

Shows the importance of composites in the construction of innovative engineering structures such as aircraft structures, space structures, automobiles, wind turbines, sports equipment, bridges, etc.

978-1-60595-051-8, ©2011, CD-ROM in plastic jewel case, **\$225.00**

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## **Asphalt Paving Technology 2011**

*Journal of the Association of Asphalt Paving Technologists*

Edited by: Eugene L. Skok

Available in both print and electronic (CD-ROM) form, the book comprises original and never-before published research on asphalt paving, including sustainable mix formulations (with recycled asphalt and shingle content), binder performance, data on cracking and wear, as well as novel testing protocols emerging from the "Guide for the Mechanistic and Empirical Design of New and Rehabilitated Pavement" (MEPDG).

978-1-60595-068-6, ©2011, 776 pages, 6x9, HC book/CD-ROM, **\$189.50**

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## **BALLISTICS 2011**

*26th International Symposium, September 12-16, 2011, Miami, FL USA*

Edited by: Ernest Baker and Doug Templeton

The most current state-of-the-art technology in Ballistics, the books contain 231 original research papers on all phases of ballistics, including how a variety of projectiles are launched, their explosive dynamics, and their impact and penetration effects on a wide range of engineered and natural materials. A separate section is devoted to analysis of personnel vulnerability from numerous types of projectiles and explosives.

978-1-60595-052-5, ©2011, 2,226 pages, 2 vols. w/CD, 6x9, HC book, **\$289.50**

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## **Composites for Automotive, Truck and Mass Transit**

*Materials, Design, Manufacturing*

Uday Vaidya

This technical monograph provides a comprehensive explanation of how advanced composite materials, including FRPs, reinforced thermoplastics and others, are designed, manufactured and utilized in exterior, interior, under-the-hood structural, semi-structural and non-structural components in passenger cars, trucks, and mass transit vehicles.

978-1-932078-79-4, ©2011, 432 pages, 6x9, HC book, **\$229.50**

*Student price available*

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## **SAMPE Fall Technical Conference**

***Developing Scalable Materials and Processes for our Future***

*Fully searchable CD-ROM*

*43rd International SAMPE Technical Conference, October 17-20, 2011*

Edited by: W. Chan, J. Koo, P. Oldroyd, P. Sears, R. Willardson and S. W. Beckwith

978-1-934551-10-3, ©2011, CD-ROM in plastic jewel case, **\$90.00**

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## **SAMPE 2011**

***State of the Industry: Advanced Materials, Applications, and Processing Technology***

*Fully searchable CD-ROM, 56<sup>th</sup> International SAMPE Symposium, May 23-26, 2011*

Edited by: Vincent P. Bailey, Bob Griffiths, James C. Leslie and Scott W. Beckwith

978-1-934551-11-0, ©2011, CD-ROM in plastic jewel case, **\$100.00**

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# ADVANCED MATERIALS

**2011**

## **Structural Health Monitoring 2011**

*Condition Based Maintenance and Intelligent Structures*

*Proceedings of the Eighth International Workshop, September 13–15, 2011, Stanford University*

Edited by: Fu-Kuo Chang

A key topic of this comprehensive 2-volume set is how SHM can be used for condition-based maintenance, with the goal of developing prediction-based systems, designed to save money over the life of vehicles and structures. A second theme centers on technologies for developing SHM systems comprising sensors, diagnostic data and decision-making.

978-1-60595-053-2, ©2011, 2,704 pages, 2 vols. w/CD, 6x9, HC book, **\$309.00**

**2010**

## **American Society For Composites—Twenty-fifth Technical Conference**

*held jointly with 14th US-Japan Conference on Composite Materials and ASTM-D30 Meeting*

*Proceedings, September 20-23, 2010, University of Dayton, Dayton, OH*

Edited by: Steven Donaldson and Gregory Schoeppner

978-1-60595-025-9, ©2010, CD-ROM in plastic jewel case, **\$210.00**

## **Design, Manufacturing and Applications of Composites**

*Proceedings of the Eighth Joint Canada-Japan Workshop on Composites,*

*July 26-29, 2010, Montreal, Canada*

Edited by: Anh Dung Ngo, Johanne Denault, Tohru Morii, and Asami Nakai

Among topics discussed were: Polymer matrix composites, Metal matrix composites, Ceramic matrix composites, Concrete mix composites, Design of composites, Evaluation of composites, Thick composites, New textile pre-forms and green composites, Acousto-ultrasonics, acoustic emission and other evaluation techniques, and Nano-scale materials/structures and ecomaterials.

978-1-60595-028-0, ©2010, 466 pages, 6x9, SC book, **\$165.00**

## **Polymer Derived Ceramics**

*From Nano-Structure to Applications*

Edited by: P. Colombo, R. Riedel, G. D. Sorarù and H.-J. Kleebe

The first comprehensive scientific treatment of PDC materials from polymeric precursors to the structure of the ceramic at the nanoscale, as well as descriptions of properties. Book covers processing and fabrication for engineering applications using a variety of new polymer derived ceramics.

978-1-60595-000-6, ©2010, 490 pages, 6x9, HC book, **\$219.50**

## **Polymeric Solar Cells: Materials, Design, Manufacture**

Edited by: Frederik Krebs

Explains how polymer science is used in the design and manufacture of solar energy cells. Chapters focus on technologies leading to increased efficiencies and lower costs. Highlighted are ways to fabricate solar cells from a range of polymers and develop them into marketable commodities.

978-1-60595-017-4, ©2010, 243 pages, 6x9, HC book, **\$139.50**

## **Recent Advances in Textile Composites (TexComp 10)**

*10th International Conference on Textile Composites, October 26-28, 2010*

Edited by: Christophe Binetruy and François Boussu

This volume presents updated key research in textile composites including topics on: Mechanical design and modelling; Advanced manufacturing processes; Net-shape 3D textile preforms; Nano-fibres and composites; Mechanical and thermal behaviors; Textile composites in ballistics; Textile modeling; Industrial applications and case studies; and Natural fibers.

978-1-60595-026-6, ©2010, 578 pages, 6x9, SC book, **\$139.50**

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### **SAMPE Fall Technical Conference**

#### ***Advanced Materials and Processes: Enabling the Future***

Fully searchable CD-ROM

42nd International SAMPE Technical Conference, October 11-14, 2010

Edited by: J. Berg, D. Buckmiller, D. Fullwood, M. Miles and S. Beckwith

978-1-934551-08-0, ©2010, CD-ROM in plastic jewel case, **\$90.00**

### **SAMPE 2010**

#### ***New Materials and Processes for a New Economy***

Fully searchable CD-ROM

55th International SAMPE Symposium, May 17-20, 2010

Edited by: Karl Nelson, Ali Yousefpour, and Scott W. Beckwith

978-1-934551-07-3, ©2010, CD-ROM in plastic jewel case, **\$100.00**

### **Structural Health Monitoring 2010**

*Proceedings of the Fifth European Workshop, Sorrento, Naples, Italy, June 29-July 2, 2010*

Edited by: Fabio Casciati and Michele Giordano

Focuses on potential damage in engineering structures and how to alleviate this through application of SHM.

978-1-60595-024-2, ©2010, 1,420 pages, 6x9, HC book/CD-ROM, **\$240.00**

### **Structures in Fire**

*Proceedings of the 6th International Conference (SiF'10)*

June 2-4, 2010, Michigan State University, East Lansing, MI

Edited by: Venkatesh Kodur

This book offers original research on how materials integrated into a variety of structures react to fire.

978-1-60595-027-3, ©2010, 1045 pages, 6x9, SC book, **\$269.50**

### **Thermal Conductivity 30/Thermal Expansion 18**

*Proceedings of the 30th International Thermal Conductivity Conference and the 18th International Thermal Expansion Symposium, August 29-September 2, 2009*

Edited by: Daniela S. Gaal and Peter S. Gaal

Papers include applications related to thermophysical properties measurement methods, equipment, processes, theory, and new developments. In addition to the traditional topics, articles include: green-energy applications, energy conservation, new improved insulation, and research related to global warming.

978-1-60595-015-0, October 2010, 1,016 pages, 6x9, HC book, **\$229.50**

## 2009

### **American Society For Composites—Twenty-fourth Technical Conference**

*Proceedings, September 15-17, 2009, University of Delaware, Newark, DE*

Edited by: John W. Gillespie, Jr.

978-1-60595-008-2, ©2009, CD-ROM in plastic jewel case, **\$200.00**

### **Creep & Fracture in High Temperature Components—**

#### ***Design & Life Assessment Issues***

*Proceedings, 2nd ECCO Creep Conference, April 21-23, 2009, Zurich, Switzerland*

Edited by: I. A. Shibli and S. R. Holdsworth

Main topics in this conference book include papers on: microstructural studies and materials development, testing and data analysis and component design and life assessment. Critical information from around the world on creep in multiple high-temperature metals, alloys, and advanced materials.

978-1-60595-005-1, ©2009, 1,338 pages, 7x10, SC book, **\$294.50**

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**2009**

## **Poromechanics IV**

*Proceedings, The Fourth Biot Conference on Poromechanics, June 8-10, 2009, Columbia Univ., NY*  
Edited by: Hoe Ling and Andrew Smyth

Papers presented on the theories and applications of poromechanics in new and emerging fields, including life science, earth science, and new materials, in addition to the traditional areas of poromechanics such as geotechnical engineering, petroleum engineering, acoustics, etc.

978-1-60595-006-8, ©2009, 1,179 pages, 6x9, HC book, **\$149.50**

## **Principles of the Manufacturing of Composite Materials**

Suong V. Hoa, Ph.D.

This book presents principles from chemistry, physics, materials science and engineering and shows how they are connected to the design and production of composite materials. All phases of matrix material formation are explained, as well as practical design details such as fabrics, auto-claving, filament winding, pultrusion, liquid composite molding, hand techniques, joints and joint bonding—plus a special section on nanocomposites.

978-1-932078-26-8, ©2009, 352 pages, 6x9, HC book, **\$189.50**

*Student price available*

## **SAMPE Fall Technical Conference**

### ***Global Material Technology: Soaring to New Horizons***

*Fully searchable CD-ROM, 41<sup>st</sup> International SAMPE Technical Conference, October 19-22, 2009*  
Edited by: Timothy Chavez, Howard Kliger, Brad Lucht, Louis Pilato, and Scott Beckwith

978-1-934551-06-6, ©2009, CD-ROM housed in plastic jewel case, **\$90.00**

## **SAMPE 2009**

### ***Changing Times—New Opportunities—Are you Prepared?***

*Fully searchable CD-ROM, 54<sup>th</sup> International SAMPE Symposium, May 19-21, 2009*  
Edited by: J. C. Fielding, L. Tate, S. Prybyla, and S. W. Beckwith

Over 200 original presentations cover emerging areas in composites and nanocomposites. New research on carbon-carbon composites, electrical properties of nanocomposites, multifunctional CM, morphing materials—as well as lean manufacturing and green processes.

978-1-934551-05-9, ©2009, CD-ROM housed in plastic jewel case, **\$100.00**

## **Stress Analysis of Fiber-Reinforced Composite Materials**

*Newly Updated Classic Text*

Michael Hyer, Ph.D.

Again available and updated, this classic book remains the definitive source of knowledge on the use of mechanics to understand stresses in composites caused by deformations, loading, and temperature changes. For advanced students and engineers, the book is a clear, practical introduction to analyzing the behavior of composites.

978-1-932078-86-2, ©2009, 710 pages, 6x9, HC book, **\$199.50**

*Student price available*

## **Structural Health Monitoring 2009**

*From System Integration to Autonomous Systems*

*Proceedings of the Seventh International Workshop, September 9–11, 2009, Stanford University*  
Edited by: Fu-Kuo Chang

The technology found only in this 2-volume book and not published elsewhere is critical for the safety monitoring of civil structures such as bridges, as well as ships and aircraft, incorporating many types of engineered materials such as composites and newly designed smart materials.

978-1-60595-007-5, ©2009, 2,372 pages, 2 Vols./CD, 6x9, HC book, **\$269.50**

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## 2008

### **Advances in Heterogeneous Material Mechanics (ICHMM-2008)**

Edited by: Jinghong Fan and Haibo Chen

Book offers refereed presentations on modeling and designing materials using multiscale methods that tie together nanoscale, microscale and full-scale data on properties of numerous materials.

978-1-932078-80-0, ©2008, 1,755 pages, 6x9, SC book, **\$115.00**

### **American Society For Composites—Twenty-third Technical Conference**

*Proceedings, September 7-9, 2008, Memphis, TN*

Edited by: A. Vizzini

978-1-932078-95-4, ©2008, CD-ROM in plastic jewel case, **\$200.00**

## **BALLISTICS 2008**

**OUT-OF-PRINT**

### **Design, Manufacturing and Applications of Composites**

*Proceedings of the Seventh Joint Canada-Japan Workshop on Composites, July 28-31, 2008, Shonan Institute of Technology, Fujisawa, Kanagawa, Japan*

Edited by: J. Lo, T. Morii, C. Poon, A. Nakai, S. V. Hoa, and H. Hamada

978-1-932078-96-1, ©2008, 266 pages, 6x9, SC book, **\$179.50**

### **Porous Metals and Metallic Foams (MetFoam 2007)**

*5th International Conference, September 5-7, 2007, Montreal, Canada*

Edited by: L. P. Lefebvre

Research and development on metallic foams and porous metals is contained in this fully refereed book. The book covers new ways to design and process metallic foams and illustrates the many applications where metallic foams and porous metals are being implemented.

978-1-932078-28-2, July 2008, 541 pages, 8.5x11, HC book, **\$195.00**

### **Recent Advances in Textile Composites (TexComp 9)**

*9th International Conference on Textile Composites, October 13-15, 2008*

Edited by: Suresh G. Advani and John W. Gillespie, Jr.

This volume presents key research in textile composites. Information is presented on manufacturing efficiencies, performance, and testing of two-dimensional and three-dimensional composites.

978-1-932078-81-7, ©2008, 545 pages, 6x9, SC book, **\$119.50**

## **SAMPE Fall Technical Conference**

### **Multifunctional Materials: Working Smarter Together**

*Fully searchable CD-ROM, 40<sup>th</sup> International SAMPE Technical Conference, September 8-11, 2008*

Edited by: Ronald Gibson, Nicholas J. Gianaris, Brad Lucht, and Scott W. Beckwith

978-1-934551-04-2, ©2008, CD-ROM in jewel case, **\$90.00**

## **SAMPE 2008**

### **Material and Process Innovations: Changing our World**

*Fully searchable CD-ROM, 53<sup>rd</sup> International SAMPE Symposium, May 18-22, 2008*

Edited by: D. Fullwood, H. Hamada, G. Hansen, T. Ishikawa, and S. W. Beckwith

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## 2008

### **Structural Health Monitoring 2008**

*Proceedings of the Fourth European Workshop  
Krakow, Poland, July 2-4, 2008*

Edited by: Tadeusz Uhl

This volume shows how SHM is applied in emerging technologies, such as wind turbines, as well as in transportation and infrastructure.

978-1-932078-94-7, ©2008, 1,328 pages, 6x9, HC book, **\$190.00**

### **Thermal Conductivity 29/Thermal Expansion 17**

*Proceedings of the 29<sup>th</sup> International Thermal Conductivity Conference and the  
17<sup>th</sup> International Thermal Expansion Symposium, June 24-27, 2007, Birmingham, Alabama*

Edited by: John R. Koenig and Heng Ban

Among the subjects investigated include: Thermal Expansion on the JWST; New TC Measurement Technologies; Emissivity; Low-K Bulk Materials; Building Insulation; Plastics and Particles; Porosity; Metals; Thin Films; and Nuclear.

978-1-932078-72-5, April 2008, 624 pages, 6x9, HC book, **\$145.00**

## 2007

### **American Society For Composites—Twenty-second Technical Conference**

*Proceedings, September 17-19, 2007, University of Washington, Seattle, WA*

Edited by: P. Feraboli and P. B. Stickler

978-1-932078-70-1, ©2007, CD-ROM in plastic jewel case, **\$175.00**

### **Introduction to Nanocomposite Materials**

*Properties, Processing, Characterization*

Thomas Twardowski

This textbook is a step-by-step introduction to nanocomposite materials using methods familiar to materials science students and engineers. It covers all nanoparticle types, including flakes, nanotubes, and nanoparticulates. It provides the basics for composites with reinforcements ranging from microns to nanometers.

978-1-932078-54-1, ©2007, 606 pages, 6x9, SC book, **\$99.50**

### **Recent Advances in Concrete Technology**

*An OWICS (Our World in Concrete & Structures)-Based Proceedings Book from the  
First International Conference, September 19-21, 2007, Washington, DC*

Edited by: Amde M. Amde, Gajanan Sabnis and John S.Y. Tan

Original investigations on the design, applications and testing of concrete in many civil engineering and construction areas. The book features important information on materials science approaches to concrete, as well as new data on concrete testing, fiber reinforcements, and characterization.

978-1-932078-76-3, ©2007, 781 pages, 6x9, SC book, **\$189.50**

### **SAMPE 2007**

#### **M&P—Coast-to-Coast and Around the World**

*52nd International SAMPE Symposium; June 3-7, 2007, Baltimore, MD*

Edited by: A. Vizzini, P. Joyce and S. Beckwith

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## 2007

### **SAMPE Fall Technical Conference**

#### ***From Art to Science: Advancing Materials & Process Engineering***

*39<sup>th</sup> International SAMPE Technical Conference, October 29-November 1, 2007, Cincinnati, OH*

Edited by: D. Klosterman, K. Strong and S. Beckwith

978-1-934551-01-1, ©2007, CD-ROM housed in plastic jewel case, **\$90.00**

### **Structural Health Monitoring 2007**

#### ***Quantification, Validation, and Implementation***

*Proceedings of the Sixth International Workshop, September 11-13, 2007, Stanford University*

Edited by: Fu-Kuo Chang

These two volumes offer 244 original presentations containing research and solutions to how increasingly sophisticated sensors and sensor arrays can be built into materials and structures and networked to provide reliable ongoing data.

978-1-932078-71-8, ©2007, 2,154 pages, 2 Vols./CD, 6x9, HC book, **\$229.50**

## 2006

### **American Society For Composites—Twenty-first Technical Conference**

*Proceedings, September 17-20, 2006, University of Michigan-Dearborn, Dearborn, MI*

Edited by: P.K. Mallick

978-1-932078-60-2, ©2006, CD-ROM in plastic jewel case, **\$175.00**

### **Design, Manufacturing and Applications of Composites**

*Proceedings of the Sixth Joint Canada-Japan Workshop on Composites*

*August 24-26, 2006, Toronto, Canada*

Edited by: S.V. Hoa, et al.

978-1-932078-62-6, ©2006, 453 pages, 6x9, SC book, **\$145.00**

### **ICAST 2005**

*Sixteenth International Conference on Adaptive Structures and Technologies*

**OUT-OF-PRINT**

### **SAMPE Fall Technical Conference**

#### ***Global Advances in Materials and Process Engineering***

*38<sup>th</sup> International SAMPE Technical Conference; November 6-9, 2006, Dallas, TX*

Edited by: Terry Stone and Benjamin M. Rasmussen

978-0-938994-72-5, ©2006, CD-ROM in plastic jewel case, **\$80.00**

### **SAMPE 2006**

#### ***Creating New Opportunities for the World Economy***

*51st International SAMPE Symposium; April 30-May 4 2006, Long Beach, CA*

Edited by: Leslie J. Cohen and Ching-Long Ong

0-938994-03-4, ©2006, CD-ROM in plastic jewel case, **\$90.00**

### **Structural Health Monitoring 2006**

*Proceedings of the Third European Workshop*

*Conference Centre, Granada, Spain, July 5-7, 2006*

Edited by: Alfredo Güemes and Rafael Gallego

978-1-932078-63-3, ©2006, 1,454 pages, 6x9, HC book, **\$175.00**

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## 2006

### **Thermal Conductivity 28/Thermal Expansion 16**

*Proceedings of the 28<sup>th</sup> International Thermal Conductivity Conference and the 16<sup>th</sup> International Thermal Expansion Symposium, June 26-29, 2005, New Brunswick, Canada*

Edited by: Ralph B. Dinwiddie, Mary Anne White and David L. McElroy

Presents the research on heat flow in materials, ranging from metals to newer materials such as thin films and nanowires.

978-1-932078-59-6, April 2006, 556 pages, 6x9, HC book, **\$145.00**

### **Twelfth U.S.-Japan Conference on Composite Materials**

*Proceedings, University of Michigan-Dearborn, Dearborn, MI, September 21-22, 2006*

Edited by: P. K. Mallick

978-1-932078-61-9, ©2006, 824 pages, 6x9, HC book, **\$99.50**

## 2005

### **American Society For Composites—Twentieth Technical Conference**

**OUT-OF-PRINT**

### **BALLISTICS 2005**

**OUT-OF-PRINT**

### **Creep & Fracture in High Temperature Components—**

*Design & Life Assessment Issues*

*Proceedings, ECCO Creep Conference, September 12-14, 2005, London, U.K.*

Edited by: I. A. Shibli, S. R. Holdsworth, and G. Merckling

This first conference book on the subject offers critical information from around the world on creep in multiple high-temperature metals, alloys, and advanced materials.

978-1-932078-49-7, ©2005, 1,131 pages, 7x10, SC book, **\$269.50**

### **Intelligence in a Small Materials World**

*Selected Papers from IPMM-2003*

*The Fourth International Conference on Intelligent Processing and Manufacturing of Needs*

Edited by: J. A. Meech, Y. Kawazoe, V. Kumar and J. F. Maguire

This book offers important research for software and hardware developed to produce and process materials using higher-level automatic and intelligent systems.

978-1-932078-19-0, ©2005, 985 pages, 6x9, SC book, **\$99.50**

### **SAMPE 2005**

#### ***New Horizons for Materials and Processing Technologies***

*50<sup>th</sup> International SAMPE Symposium; May 1-5, 2005, Long Beach, CA*

Edited by: Frances Abrams and Jayant Patel

0-938994-98-0, ©2005, CD-ROM in plastic jewel case, **\$80.00**

### **Structural Control**

*Proceedings of the 4th International Workshop, June 10-11, 2004, Columbia University, NY*

Edited by: Andrew Smyth and Raimondo Betti

This book presents the research and applications on sensing technologies to monitor and control the structure and health of buildings, bridges, installations, and other constructed facilities.

978-1-932078-45-9, ©2005, 326 pages, 6x9, HC book, **\$99.50**

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### Structural Health Monitoring 2005

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## 2004

### Advanced Smart Materials and Smart Structures Technology

OUT-OF-PRINT

### American Society For Composites—Nineteenth Technical Conference

*Held jointly with the ASTM-D30 Meeting*

*Proceedings, October 17-20, 2004, Atlanta, GA*

Edited by: Erian Armanios and James Reeder

978-1-932078-44-2, ©2004, CD-ROM in plastic jewel case, **\$150.00**

### Design, Manufacturing and Applications of Composites

OUT-OF-PRINT

*Proceedings of the Fifth Joint Canada-Japan Workshop on Composites*

### ICAST 2003

*Fourteenth International Conference on Adaptive Structures and Technologies*

OUT-OF-PRINT

### Introduction to the Dimensional Stability of Composite Materials

Ernest G. Wolff

This book is a comprehensive introduction to the quantitative analysis of dimensional instability in composite materials. It will aid in predicting deformations in a wide range of composite materials products and parts, under mechanical, thermophysical, and environmental stresses over time.

978-1-932078-22-0, ©2004, 420 pages, 6x9, HC book, **\$149.50**

### Polymer Composites III

*Transportation Infrastructure, Defense and Novel Applications of Composites*

*Proceedings, March 30–April 1, 2004, West Virginia University, Morgantown, WV*

Edited by: Robert C. Creese and Hota GangaRao

Focus on practical, current applications of polymer composites in transportation, infrastructure, and military research.

978-1-932078-35-0, ©2004, 211 pages, 6x9, HC book, **\$49.50**

### Structural Health Monitoring 2004

OUT-OF-PRINT

*Proceedings of the Second European Workshop*

### Thermal Conductivity 27/Thermal Expansion 15

*Proceedings of the 27<sup>th</sup> International Thermal Conductivity Conference and the*

*15<sup>th</sup> International Thermal Expansion Symposium, October 26-29, 2003, Knoxville, TN*

Edited by: Hsin Wang and Wally Porter

978-1-932078-34-3, October 2004, 681 pages, 6x9, HC book, **\$100.00**

### Thermal Conductivity 26/Thermal Expansion 14

*Proceedings of the 26<sup>th</sup> International Thermal Conductivity Conference and the*

*14<sup>th</sup> International Thermal Expansion Symposium, August 6-8, 2001, Cambridge, MA*

Edited by: Ralph Dinwiddie

978-1-932078-36-7, October 2004, 592 pages, 6x9, HC book, **\$90.00**

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# ADVANCED MATERIALS

**2003**

**Designing Structures for Fire**

**OUT-OF-PRINT**

**SAMPE 2003**

**Advancing Materials in the Global Economy—Applications, Emerging Markets and Evolving Technologies**

*48<sup>th</sup> International SAMPE Symposium, May 11-15, 2003, Long Beach, CA*

Edited by: Leslie J. Cohen, Ching-Long Ong and Cory P. Arendt

2-vol. set: 0-938994-94-8-B, ©2003, 2,779 pages, 6x9, HC book, **\$75.00**

CD-ROM: 0-938994-94-8-C, ©2003, CD in jewel case, **\$75.00**

**Structural Health Monitoring 2003**

*From Diagnosis & Prognostics to Structural Health Management*

*Proceedings of the Fourth International Workshop, September 15–17, 2003, Stanford University*

Edited by: Fu-Kuo Chang

978-1-932078-20-6, ©2003, 1,552 pages, 6x9, HC book, **\$145.00**

**2002/2001**

**BALLISTICS 2002**

*20<sup>th</sup> International Symposium on Ballistics, September 23-27, 2002, Orlando, FL*

Edited by: Dr. Joseph Carleone and Dennis Orphal

978-1-932078-11-4, ©2002, 1,298 pages, 2 Vols./CD, 6x9, HC book, **\$195.50**

**SAMPE 2002: M&P—Ideas to Reality**

*34<sup>th</sup> International SAMPE Technical Conference, November 4-7, 2002, Baltimore, MD*

Edited by: Allan B. Goldberg, Michael C. Maher, James S. Harris, and Anthony J. Vizzini

Book: 0-938994-93-X-B, ©2002, 1,255 pages, 6x9, HC book, **\$60.00**

CD-ROM: 0-938994-93-X-C, ©2002, CD in jewel case, **\$60.00**

**Structural Health Monitoring 2002**

**OUT-OF-PRINT**

*Proceedings of the First European Workshop*

**Tenth U.S.-Japan Conference on Composite Materials**

*Proceedings, September 16-18, 2002, Stanford University, USA*

Edited by: Fu-Kuo Chang

978-1-932078-13-8, ©2002, 1,125 pages, 6x9, HC book, **\$69.50**

**SAMPE Fall Technical Conference**

**Advancing Affordable Materials Technology**

*33<sup>rd</sup> International SAMPE Technical Conference, November 5-8, 2001, Seattle, WA*

Edited by: Anthony Falcone, Karl M. Nelson, Robert Albers, and William B. Avery

Book: 0-938994-91-3-B, ©2001, 1,708 pages, 6x9, HC book, **\$60.00**

CD-ROM: 0-938994-91-3-C, ©2001, CD in jewel case, **\$60.00**

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# ENVIRONMENTAL TECHNOLOGY

**2013**

## **Activated Sludge Technologies for Treating Industrial Wastewaters**

*Design and Troubleshooting*

Joseph Cleary and W. Wesley Eckenfelder

A comprehensive presentation of activated sludge from basic principles to new process designs and configurations, the book explains how activated sludge is utilized to bring industrial wastewaters up to effluent permit standards, with special attention to organics, microconstituents and bioactive pharmaceuticals. Covers characterization, pretreatment; treatability studies; process modeling and reuse from pharma, food, beverage, and meat packing facilities. A chapter is devoted to treatment of shale gas/fracking wastes. Key information for retrofitting, troubleshooting and new design.

978-1-60595-019-8, October 2013, 364 pages, 6x9, HC book, **\$154.50**

## **Design and Practice of Geosynthetic-Reinforced Soil Structures**

*Proceedings of the International Symposium*

*October 14-16, 2013*

Edited by: G. Gottardi, J. Han, H. Ling and F. Tatsuoka

Papers are written on topics including: Geosynthetic-reinforced soil retaining walls, Geosynthetic-reinforced soil slopes, Construction of reinforced embankments over soft soil, Geotextile tubes, Geosynthetic-reinforced soil structures for railways and highways, Properties of backfill soils, geosynthetics and soil-geosynthetic interaction.

978-1-60595-108-9, October 2013, 750 pages, 6x9, HC book, **\$179.50**

## **Safe Work Practices for Green Energy Jobs**

Frank R. Spellman

A technical guide to establishing, promulgating and adhering to safety and protective procedures for wind energy, solar energy, geothermal, biofuel and recycling facilities. The book explains OSHA-mandated rules and shows how they are applied in the rapidly emerging area of green energy production and storage.

978-1-60595-075-4, January 2013, 323 pages, SC book, **\$79.50**

**2011**

## **Sludge Engineering**

*The Treatment and Disposal of Wastewater Sludges*

F. Dilek Sanin, William W. Clarkson and P. Aarne Vesilind

With engineering and design information on sludge disposal technology and current legislation governing sludge removal, this professional book explains the best methods and management practices for safely treating wastewater plant and industry sludges. Covers sources and properties, stabilization, pumping/conveying, thickening, dewatering, as well as chemical industry sludges and ultimate land disposal and monitoring.

978-1-932078-87-9, ©2011, 403 pages, 6x9, HC book, **\$175.00**

*Student price available*

**2007**

## **Construction Site Erosion and Sediment Controls**

*Planning, Design, and Performance*

Robert Pitt, Shirley Clark and Donald Lake

Up-to-date text containing critical design tools for practical implementation of techniques to control and abate run-off and sediment from construction sites.

978-1-932078-38-1, ©2007, 380 pages, 8.5x11, HC book, **\$169.50**

*Student price available*

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# ENVIRONMENTAL TECHNOLOGY

**2006**

## **Controlling Environmental Pollution**

*An Introduction to the Technologies, History, and Ethics*

Aarne Vesilind and Thomas D. DiStefano

Introductory textbook designed for a one-semester course in environmental technology. Created to appeal to a range of students, it combines lucid presentations of environmental technologies with fascinating stories and biographies illustrating milestones in environmental science and engineering.

978-1-932078-39-8, ©2006, 427 pages, 6x9, SC book, **\$69.50**

*Student price available*

## **The Use of Best Management Practices (BMPs) in Urban Watersheds**

Edited by: R. Field, A. N. Tafuri, S. Muthukrishnan, B. A. Acquisto and A. Selvakumar

Written by leading U.S. stormwater experts, this book is a guide to the main techniques for controlling pollutants from diffuse, mainly wet weather, sources. The volume provides a mass of valuable data on the removal efficiencies, costs, and design parameters of all main runoff control structures—from ponds to swales—for large developments to small parking lots.

978-1-932078-46-6, ©2006, 282 pages, 8.5x11, SC book, **\$99.50**

**2004**

## **Pulp & Paper Mill Effluent Environmental Fate & Effects**

Edited by: Dennis L. Borton, Timothy Hall, Robert Fisher and Jill Thomas

The book and CD-ROM explores the most active and critical current research and experimentation from around the world. Completely edited, the papers present the latest developments in research and practical applications relating to pulp and paper wastewater treatment as well as associated issues such as air emissions and solid waste production.

978-1-932078-37-4, ©2004, Book w/CD, 608 pages, 7x10, HC book, **\$115.00**

## **Understanding Water Quality Management**

*Technology and Applications*

W. Wesley Eckenfelder and William Ney Hansard

This professional reference presents specialized information about the sources of water pollution and the techniques now in use to improve water quality.

978-1-932078-21-3, ©2004, 200 pages, 6x9, HC book, **\$59.50**

**2003**

## **Industrial Wastewater and Best Available Treatment Technologies**

*Performance, Reliability, and Economics*

Edited by: Alan Bowers and W. Wesley Eckenfelder

978-1-932078-17-6, ©2003, CD-ROM w/installation instructions, **\$39.50**

## **Wastewater Treatment Plant Operations Made Easy**

*A Practical Guide for Licensure*

Frank R. Spellman and Joanne Drinan

This book gives plant operators and students a simple and math-based introduction to all major unit processes in the modern wastewater treatment plant. The work is designed for operators and managers to run plants and to advance their careers by passing state licensure exams.

978-1-932078-09-1, ©2003, 230 pages, 6x9, SC book, **\$39.50**

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# FIRE SCIENCE & TECHNOLOGY

**2003/2002/2001**

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## **Performance-Based Codes and Fire Safety Design Methods**

*4<sup>th</sup> International Conference, March 20-22, 2002, Melbourne, Australia*

Research-based reports on fire safety engineering and design of buildings and other structures.

978-1-932078-24-4, ©2002, 391 pages, 6x9, SC book, **\$50.00**

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## **International Fire Safety Conference**

*Fire Retardant Chemicals Association conference, March 9-12, 2003, New Orleans, LA*

Reports presented with the emphasis on fire retardant additives and their use in polymeric materials and end-use products.

978-1-932078-16-9, ©2003, 180 pages, 8.5x11, SC book, **\$29.50**

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*Fire Retardant Chemicals Association (FRCA) Conference Proceedings*

## **A New Century of FR Compounding**

978-1-932078-15-2, October 2002, 172 pages, 8.5x11, SC book, **\$29.50**

## **Flame Retardants in Our New World**

978-1-932078-12-1, March 2002, 126 pages, 8.5x11, SC book, **\$29.50**

## **Fire Retardant Trends and Advances**

1-885432-12-7, October 2001, 275 pages, 8.5x11, SC book, **\$29.50**

## **Introduction to Flame Retardants**

*Based on a Fire Retardant Chemicals Association (FRCA), educational seminar*

1-885432-13-5, October 2001, 161 pages, 8.5x11, spiral SC book, **\$29.50**

## **International Fire Safety Conference**

1-885432-15-1, March 2001, 205 pages, 8.5x11, SC book, **\$29.50**

## **Flame Retardants—101: Basic Dynamics**

1-885432-19-4, March 1996, 224 pages, 8.5x11, SC book, **\$24.50**

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# FOOD SCIENCE

**2013**

## **Food Authentication Using Bioorganic Molecules**

Edited by: Stefano Sforza

Describes molecular-level techniques for identifying and measuring quality-defining properties of meats, fish, cheeses, wine, cereal products and more. Book offers practical guidance on DNA, peptide, lipid and other methods for certifying genuineness of sources and ingredients and preventing food counterfeiting.

978-1-60595-045-7, February 2013, 320 pages, 6x9, SC book, **\$149.50**

## **Functionalizing Carbohydrates for Food Applications**

*Texturizing and Bioactive/Flavor Delivery Systems*

Edited by: Milda Embuscado

This book systematically explains the chemistry and engineering of new starch-based polymers and carbohydrates and shows how they improve the texture of foods and act as carriers for flavors and for bioactive compounds. Also investigates current and potential uses of functionalized carbohydrates in formulating and processing improved and healthier foods.

978-1-60595-038-9, October 2013, 426 pages, 6x9, HC book, **\$172.50**

## **Methods for Developing New Food Products**

*An Instructional Guide*

Fadi Aramouni and Kathryn Deschenes

This volume is a practical textbook for students and professionals who need to know the basics of how new food products are planned, developed, and launched. Step-by-step, the book explains the techniques needed to design and test-market safe and profitable food items. Determining how new product decisions are analyzed and which economic/cost factors must be weighted and investigated is reinforced by case studies of actual products launched by U.S. food companies.

978-1-60595-112-6, September 2013, 184 pages, 7x10, SC book, **\$64.50**

## **Microbiology of Thermally Preserved Foods**

*Canning and Novel Physical Methods*

Tibor Deak and József Farkas

While introducing the principles and processes of industrial-level food canning, the volume focuses on the effects of microorganisms, their ecology, fate, and prevention through all phases of canning and other thermal processing techniques, such as aseptic packaging. It covers microbial spoilage and detection for vegetables, fruits, milk, meat and seafood from the raw food materials through individual unit operations, facility sanitation, and packaging. It thus offers a practical introduction to understanding, preventing and destroying microbe-based hazards in food plants that use thermal processes. The text surveys major spoilage and pathogenic microbes of interest, explaining their toxicity, product and safety effects, and the conditions of their destruction by heat treatment.

978-1-60595-033-4, ©2013, 326 pages, 6x9, SC book, **\$129.50**

## **Minerals in Foods**

*Bioactivity, Metabolism, Nutrition*

Edward Harris

Book presents a technical introduction to all facets of nutritive minerals in foods, including their chemistry, transport, absorption, bioavailability and physiological functions. The book explains the *in vivo* behavior of minerals at a molecular level and clarifies their unique metabolic roles. Important instructional text for students and practitioners of nutrition and food science.

978-1-932078-97-8, October 2013, 288 pages, 6x9, HC book, **\$168.50**

*Student Price Available*

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# FOOD SCIENCE

**2013**

## **Post-harvest Technologies for Fruits and Vegetables**

Hosahalli Ramaswamy

A comprehensive introduction to traditional and emerging areas of post-harvest technology, this text investigates factors that cause deterioration in the post-harvest quality and enhance shelf-life of perishable produce. The book explains all major post-harvest storage and handling technologies for fruits and vegetables in their fresh state, and also covers MAP packaging. Psychrometric principles and their role in post-harvest storage are examined to understand moisture transfer phenomena in produce storage. Volume includes calculations for process control and shelf-life prediction.

978-1-932078-27-5, October 2013, 364 pages, HC book, **\$154.50**

## **Tharp and Young on Ice Cream**

*An Encyclopedic Guide to Ice Cream Science and Technology*

Bruce Tharp and Steve Young

This volume is a comprehensive and practical guide to the formulation, manufacturing and quality enhancement of ice cream and related frozen desserts such as sherbets, gelato, sorbets, and frozen yogurts. Organized alphabetically by topic, and with many technical tables, the book explains all aspects of ice cream processing and equipment, from raw materials to packaging. Specifically the book offers a comprehensive account of the freezing process and demonstrates how it affects the chemistry of, and ice formation inside, frozen dairy products.

978-1-932078-68-8, ©2013, 410 pages, 7x10, HC book, **\$199.50**

**2012**

## **Military Food Engineering and Ration Technology**

Edited by: Ann Barrett and Armand Cardello

Written by a team from the U.S. Army's Combat Feeding Directorate at the Natick Research, Development and Engineering Center, this volume represents a comprehensive guide to how the military designs, processes, customizes, packages and distributes highly palatable, long shelf-life food products for field personnel. The book offers new data on numerous technologies used to solve problems such as nutrient densification, lightweighting, novel thermal processing, and long-term quality preservation in delivering appetizing foods and more.

978-1-60595-049-5, ©2012, 489 pages, 6x9, HC book, **\$175.00**

## **Nanotechnologies for Solubilization and Delivery in Foods, Cosmetics and Pharmaceuticals**

Edited by: Nissim Garti and Idit Amar-Yuli

Demonstrates how vehicles for delivering bioactive ingredients through a variety of oral, transdermal, buccal and mucosal routes, can be synthesized by nanolevel manipulation of colloidal systems, proteins, peptides, liquid crystalline phases, organogels and dendrimers. The information presented in this book is applicable to the design of micro- and nanolevel delivery systems with improved targeting, more efficient controlled release, and superior *in vivo* penetration into dermal and cellular structures.

978-1-60595-016-7, ©2012, 401 pages, 6x9, HC book, **\$209.50**

## **Omics, Microbial Modeling and Technologies for Foodborne Pathogens**

Edited by: Xianghe Yan, Vijay K. Juneja, Pina M. Fratamico and James L. Smith

This book provides comprehensive information on genetic analysis and multiple omics methods, microbial modeling, and other technologies used for the analysis of a wide variety of foodborne pathogens. Part I details the use of genomics, proteomics, metabolomics etc. to study and classify foodborne bacteria, viruses, fungi and protozoa. Part II covers microbial growth, modeling, and risk assessment and how these contribute to improving food safety. Part III provides guidance on creating a new food safety database infrastructure.

978-1-60595-047-1, ©2012, 643 pages, 6x9, HC book, **\$169.50**

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# FOOD SCIENCE

## 2010

### **Food, Nutrition and the Nitric Oxide Pathway**

Edited by: Nathan S. Bryan

This volume is the first to analyze the effects of food and nutrients on changes in the nitric oxide pathway. The authors present and explain novel pathways linking nitric oxide and nutrient intake. The book explains the role of foods and dietary elements for restoring nitric oxide production and homeostasis in NO-deficient subjects—without medical interventions. Intended for food, nutrition and pharma scientists, as well as medical researchers investigating the role of nitric oxide in human health.

978-1-932078-84-8, ©2010, 238 pages, 6x9, HC book, **\$149.50**

## 2009

### **The ICC Handbook of Cereals, Flour, Dough & Product Testing**

*Methods and Applications*

Edited by: Stan Cauvain and Linda Young

Outlines the most recent standards and test methods to analyze cereal products at every stage of the grain chain from harvest to finished products. It shows how tests are done and specific standards are applied. Explains best practices to achieve consistent processing and high quality in cereal-based ingredients and food products made from grains.

978-1-932078-99-2, ©2009, 510 pages, 6x9, HC book, **\$179.50**

## 2008

### **Food Drying Science and Technology**

*Microbiology, Chemistry, Applications*

Edited by: Y.H. Hui, Carter Clary, Mohammed Farid, Oladiran Fasina, Athapol Noomhorm, and Jorge Welte-Chanes

Explains the latest technologies for drying a wide assortment of foods—with important new data on microbiology and preservation.

978-1-932078-56-5, ©2008, 807 pages, 6x9, HC book, **\$189.50**

## 2006

### **Trends in Food Science—History at Penn State**

Manfred Kroger

This unique book chronicles the scientific investigation of food at Penn State University, where significant developments in food science, especially dairy technology, had their start.

978-1-932078-66-4, ©2006, 334 pages, 6x9, HC book, **\$19.95**

## 2004

### **Seafood Quality & Safety: Advances in the New Millennium**

Edited by: Fereidoon Shahidi and Benjamin K. Simpson

Research and development in biotechnology, microbiology, computer modeling and advanced analytical techniques has led to improvements in processing and product safety.

0-9683220-2-6, ©2004, 391 pages, 6x9, HC book, **\$95.00**

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# MACHINERY/MFR. ENGINEERING

**2010**

## **Precision Spindle Metrology, 2nd Edition**

Eric Marsh

New techniques and data have been added to this book to increase its size by over 20 percent. The goal of the book is to provide concepts and measurement techniques for analysis of precision spindle performance. The volume shows how to use and measure spindles to improve manufacturing and inspection processes. One of the main emphases is on sustaining rotational quality. The book will benefit engineers, quality control personnel, and precision machine specialists.

978-1-60595-003-7, ©2010, 202 pages, 8.5x11, HC book, **\$184.50**

## **The Mechanics of Rollers**

David R. Roisum

The book is a comprehensive technical guide to rollers, the key component of winding devices and processes. With hundreds of illustrations and mathematical formulas, the book explains all facets of rollers. Specialty rolls and maintenance are also explained.

0-89852-313-3, 2010 Reprint (©1996), 317 pages, 7x10, SC book, **\$135.00**

## **The Mechanics of Winding**

David R. Roisum

This classic book focuses on the actual ways (mechanics) of winding a good roll, in contrast to discussing winding equipment. In detail and with many useful formulas, the text explains what winding is and how it works. It shows how the numerous processes of winding can be used on different machines and for multiple rolled materials, including paper, film, foil and nonwovens. Engineering know-how is provided to select specifications and link them to machinery.

0-89852-281-1, 2010 Reprint (©1994), 238 pages, 7x10, SC book, **\$149.00**

## **Web Machine Buying Guide**

*Designing For, Installing and Maintaining Web Equipment*

David R. Roisum

Provides a step-by-step technical approach to acquiring machines designed to process large rolls of plastic film, paper, foils and other materials. Written by one of the leading authorities in the world, the book offers analysis for engineers and managers in the packaging, converting, paper, and plastics industry.

978-1-60595-011-2, ©2010, 274 pages, 6x9, flexible SC book, **\$149.50**

**2008**

## **Precision Spindle Metrology, 1st Edition**

**OUT-OF-PRINT**

## **Winding: Machines, Mechanics and Measurements**

James K. Good and David R. Roisum

This recent book, by two of the world's foremost experts, is the definitive guide to how winding machines work and how wound rolls are formed. It covers a wide array of machines in use across all web industries, including paper, film, foil, nonwovens, textiles, and more. It sets the standard for understanding and applying quality control in the field.

*Accompanying CD-ROM provides computer models for many winding situations*

978-1-932078-69-5, ©2008, 432 pages, 6x9, HC book, **\$229.95**

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## MISCELLANEOUS

**2008**

*Series in the Chinese Kung Fu style of Iron Palm by Grandmaster Brian Gray*

### **Iron Palm Fundamentals**

This is the conditioning book. The book details how to condition the hand to withstand pressure of Iron Palm strikes, the changing process that gives a practitioner a deadly palm, as well as the physics for breaking objects. Also outlines how to avoid the pitfalls of training with fraudulent teachers and the damage from improper training.

978-1-932078-89-3, 2008, 110 pages, 7x10, SC book, **\$19.95**

### **Advanced Iron Palm**

This book deals with learning how to intensify the potential in the student's striking skills and differences between external and internal breaking theories.

978-1-932078-90-9, 2008, 87 pages, 7x10, SC book, **\$19.95**

### **Applied Iron Palm**

The book begins with an overview of theories and answers to questions and discoveries in light of earlier learning from knowledge gained from the first two books. The book deals with applying the knowledge and how to use the palm in self-defense. The book also teaches how to make Grandmaster Gray's famous Iron Palm liniment.

978-1-932078-91-6, 2008, 112 pages, 7x10, SC book, **\$19.95**

### **Iron Palm Form**

Although there has never been a form for the Iron Palm, the reason is contained in this book. The author created Iron Palm form so that martial artists and non-martial artists would be able to practice self-defense techniques that coordinate with the Iron Palm theories. Regardless of a person's level or martial art style, this form gives theory and application a three-dimensional regimen.

978-1-932078-92-3, 2008, 66 pages, 7x10, SC book, **\$19.95**

**Visit [ultimateironpalm.com](http://ultimateironpalm.com) for more information  
and ordering any book or the entire series.**

**2006**

### **Baseball's Forgotten Basics**

*A Field Manual and Instructional DVD • For Coaches, Parents and Players*

Marc Shoenfelt

Written by a professional baseball instructor and educator, the book and 99-minute instructional DVD combination puts on your bookshelf and home television the little things that are overlooked in other volumes but add up to solid baseball technique. Designed to give younger players of all skill levels solid fundamentals, with safety and fun in mind, these basics of baseball form a foundation that will make any player better.

978-1-932078-53-4, 2006, Book/DVD, 181 pages, 7x10, SC book, **\$29.95**

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# NURSING

**2013**

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## **Ethical and Legal Issues for Doctoral Nursing Students**

*A Textbook for Students and Reference for Nurse Leaders*

Edited by: Anne Griswold Peirce and Jennifer Smith

Designed for ethics courses in nursing Ph.D. and DNP programs, the book fills the need for an expanded view of required ethics content in the nursing curriculum given the increasing responsibilities and decision-making authority of advanced practice nurses. Coverage of ethical patient care, care in vulnerable populations, legal influences on ethical care, ethical business practices, and research ethics are discussed and analyzed by experts, with special attention to cases where ethical theory must be applied in clinical and managerial decisions. Case studies provide real-world examples and facilitate classroom discussion.

978-1-60595-058-7, April 2013, 260 pages, 6x9, SC book, **\$69.95**

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## **Healthcare Economics and Finance for Advanced Practice Nurses and Clinical Professionals**

Mary Paterson

Textbook is intended for students preparing as advanced practice clinicians, including DNP, DPTs, DOTs, and physician assistants. It is organized in two main parts. The first focuses on macro issues in healthcare finance and policy issues, and the second concentrates on healthcare financing management in professional practice. This approach provides the context necessary for the clinician to understand how to manage reimbursement requirements and preferred provider contracting as health care policy drives these payment and contracting strategies. Each section features a case study to facilitate classroom discussion. This book is suitable for healthcare finance courses in the curriculum for MSN and DNP programs and also for schools of social work, medicine, occupational, and physical therapy.

978-1-60595-062-4, December 2013, 220 pages, 6x9, SC book, **\$69.95**

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## **Infection Control for Advanced Practice Nurses and Other Advanced Practice Professionals**

Edited by: Denise M. Korniewicz

Professional reference combines research on the best practices for infection control in clinical settings with essential information for advanced practice nurses. The book is organized by healthcare settings, and the coverage ranges from small practice offices to large hospitals and medical institutions. Each chapter is prefaced by a case study, which is incorporated into the theoretical material of the chapter as a continuing illustration. Provides a classroom resource for advanced practice graduate courses as well. Nurse practitioners, physical therapists, physician assistants, and students are the intended audience.

978-1-60595-060-0, May 2013, 250 pages, 6x9, SC book, **\$69.95**

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## OTHER TECHNOLOGIES

### AQUACULTURE

#### **Sea Urchins: Fisheries and Ecology**

*Proceedings, First International Conference on Sea-Urchin Fisheries and Aquaculture*

Edited by: John M. Lawrence and Oscar Guzmán

Addresses the key areas of Sea Urchin aquaculture: seed production, food and nutrition, husbandry issues, and marketing.

978-1-932078-32-9, ©2004, 439 pages, 6x9, HC book, **\$189.50**

### CHEMISTRY

#### **The Integrated Approach to Chemistry Laboratory**

*Selected Experiments*

Edited by: Partha Basu and Mitchell Johnson

This volume is intended for chemistry instructors seeking to provide engaging and challenging labs that combine all the features and benefits of the integrated laboratory.

978-1-932078-88-6, ©2009, 122 pages, 8x10, SC book, **\$24.95**

### COMPUTER TECHNOLOGY

#### **Parallel Computational Fluid Dynamics**

*Recent Advances and Future Directions*

Edited by: Rupak Biswas

This book, consisting of papers from the 21st Conference, comprises 60 recent and never before published treatments of the theory, problems and applications of CFD in parallel and supercomputing, covering a wide range of computers and configurations. Sections include: Applications to space and military vehicles, as well as energy, explosives, climate and more.

978-1-60595-022-8, ©2010, 704 pages, Book/CD, 6x9, SC book, **\$195.00**

#### **Security Enhanced Linux Symposium—SELinux 2007**

*3rd Annual Proceedings; March 12-16, 2007, Baltimore, MD*

Presents original papers on SELinux, an operating system element designed to protect against software vulnerabilities.

978-1-932078-67-1, ©2007, 120 pages, 8.5x11, SC book, **\$34.50**

### ENGINEERING: MECHANICAL, MANUFACTURING

#### **The Essentials of the Mechanics of Materials, Second Edition**

George Frantziskonis

The second edition of this popular student text has been improved and expanded by many new examples, homework problems, enhanced illustrations and clearer explanations of basic principles. It remains a unique, lower-priced textbook designed for engineering students who are not mechanical engineering majors. While it covers the standard syllabus, the book divides the course material into very short chapters or modules, which allows for multiple classroom and online instructional strategies geared to different student backgrounds.

978-1-60595-098-3, January 2013, 336 pages, 8.5x11, SC book, **\$69.95**

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# OTHER TECHNOLOGIES

## GEOSCIENCE

### Great Basin Evolution and Metallogeny

*Geological Society of Nevada 2010 Symposium, May 14-22, 2010*

Edited by: Roger Steininger and William Pennell

This two-volume set comprises 62 refereed research papers, shown in full color, from a symposium devoted to scientific investigations of geology, ores and metal exploration. Topics include mineral formation, geophysics, litho geochemistry, stratigraphy, tectonics, and geothermal energy as related to metals and mining in the western United States and South America. Metals discussed are gold, arsenic, silver, tungsten, and copper as located in numerous hydrothermal and geothermal mineral formations.

978-1-60595-040-2, ©2011, 1,224 pages, 2 Vols./CD, 8.5x11, HC book, **\$340.00**

## MATHEMATICS

### Complex and Harmonic Analysis

*Proceedings, May 25-27, 2006, University of Thessaloniki, Greece*

Edited by: A. Carberry, P. L. Duren, D. Khavinson, and A. G. Siskakis

Presents updated materials on the following topics: Classical complex analysis, Geometric function theory, Approximation theory in the complex plane, Potential theory, Spaces of analytic functions and related operators, Harmonic analysis, and BMO functions.

978-1-932078-73-2, October 2007, 332 pages, 6x9, SC book, **\$44.50**

## NON-DESTRUCTIVE TESTING

### Neutron Radiography

*Proceedings of the Eighth World Conference—WCNR-8*

*October 16-19, 2006, NIST, Gaithersburg, MD*

Edited by: Muhammad Arif and R. Gregory Downing

This book-CD-ROM combination contains 72 highly refereed chapters covering key advances in neutron radiography, with a focus on the analysis of materials and high-value artifacts and products. The book shows how neutron radiography is a highly efficient tool for materials research and NDT testing, especially with regard to microstructure, and to the analysis of material elements *in situ*.

978-1-932078-74-9, Sept. 2008, 655 pages, Book/CD-ROM, 6x9, HC, **\$299.50**

## SEPARATIONS SCIENCE

### Fouling in Membranes and Thermal Units

*A Unified Approach—Its Principles, Assessment, Control, and Mitigation*

Roya Sheikholeslami

The book connects and unifies diverse explanations of biofouling and highlights the similarities and connections of fouling phenomena across all the unit processes where it occurs. By offering general principles for understanding fouling in a range of membrane and thermal devices, the book gives practitioners and engineers the tools to mitigate fouling's negative effects under actual process conditions.

0-86689-066-1, ©2007, 258 pages, 6.5x9.5, HC book, **\$69.50**

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# PACKAGING TECHNOLOGY

## 2013

### **Creating Value Through Packaging**

*Unlocking a New Business and Management Strategy*

James Peters, Brian Higgins and Michael Richmond

This book is a methodical guide to managing packaging, which also demonstrates how packaging, considered in a total context, can benefit all phases of a business and its customers. It offers a holistic business strategy that proves packaging's value-adding roles in creating successful products and enhancing the experience of customers—B2B as well as consumers. In addition, the text explains all the standard operating procedures of packaging development, along with numerous flow charts, formulas and graphics, covering cost-benefit analyses, planning, and sales.

978-1-60595-087-7, ©2013, 214 pages, 5.5x8.5, SC book, **\$84.95**

## 2012

### **18th IAPRI World Packaging Conference**

Edited by: Jay Singh

The presentations' subjects cover eight areas: active/intelligent packaging, distribution packaging, medical, cosmetic and pharmaceutical packaging, food and agricultural packaging, hazardous materials containers, as well as sections on materials, sustainability, testing and standards. The book is the latest in a series from this important global packaging meeting, which brings together packaging researchers from universities and industry.

978-1-60595-084-6, July 2012, 603 pages, 6x9, SC book, **\$139.50**

## 2011

### **Protective Packaging for Distribution**

*Design and Development*

Daniel Goodwin and Dennis Young

Starting with a section on foundational (dynamic) theory, the book defines the hazards of distribution packaging, including the best practices for measurement of environmental stresses. This book seeks to understand the packaged product within a variety of systems and contains information for designing protective packaging.

978-1-60595-001-3, ©2011, 269 pages, 6x9, HC book, **\$169.50**

*Student price available*

## 2010

### **The Packaging Value Chain**

Claire Sand

Intended for packaging engineers and technologists, the text explains how all aspects of packaging are used to increase value throughout the packaging supply chain from raw materials, to suppliers and converters, to manufacturers and retailers to the post-consumer stage of a package. The book offers a comprehensive understanding of relationship management, informational flows and knowledge management, economics, and negotiations at every step of the packaging value chain.

978-1-60595-002-0, ©2010, 124 pages, 6x9, SC book, **\$64.50**

*Student price available*

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# PACKAGING TECHNOLOGY

**2009**

## **Fundamentals of Packaging Technology, *FOURTH EDITION***

Walter Soroka

This most recent edition delivers a clear, concise guide to the expertise that forms the field's foundation. The author has a unique position in packaging with both wide experience and a practical way of communicating to readers. It is easy to understand and has detailed content. The book is used as a text in many university-level courses and in continuing education seminars.

1-930268-28-9, ©2009, 640 pages, 8.5x11, SC book, **\$254.50**

## **Heat Sealing Technology and Engineering for Packaging**

*Principles and Applications*

Kazuo Hishinuma

In this one volume all aspects of heat sealing are presented, including heating methods, melting, temperature monitoring, peel seals, tear seals and compo-seals. The book explains heat sealing machinery and processes and demonstrates methods for measuring and quantifying proper heat sealing temperatures leading to safer and more effective seal performance. Practical information is given on HACCP, testing, and troubleshooting defects, such as pinholes and polyball.

978-1-932078-85-5, ©2009, 267 pages, 6x9, SC book, **\$179.50**

*Student price available*

**2008**

## **Illustrated Glossary of Packaging Terminology, *SECOND EDITION***

Walter Soroka

The book concentrates on the material components of packaging, ranging from wood and metal to the latest plastics. This edition presents many illustrated descriptions of the machinery and processes whereby packaging materials are formed. Definitions are also provided for the words used in packaging converting and printing, with attention to testing. Filling processes and machinery are covered in detail.

978-1-930268-27-2, ©2008, 272 pages, 8.5x11, SC book, **\$124.50**

**2007**

## **Mass Transport & Reactive Barriers in Packaging**

*Theory, Applications & Design*

Anatoliy Y. Goldman and Stanislav E. Solovyov

This book is a systematic and comprehensive presentation of the theory and practice of polymer barrier films. Starting from a presentation of how gases and liquid solutes permeate films, the book explains the performance limits of polymer barriers under multiple packaging conditions. This information is then used to illustrate how engineers can predict properties and performance for single and multilayer barriers for a wide variety of packaging applications.

978-1-932078-64-0, ©2007, 558 pages, 6x9, HC book, **\$189.50**

**2005**

## **Cartons, Crates and Corrugated Board**

*Handbook of Paper and Packaging Technology*

Diana Twede and Susan E.M. Selke

This book describes the properties, manufacturing processes, function, and design of wood, paper, paperboard and corrugated fiberboard as packaging materials. Its complete and illustrated section on the history of packaging is enlightening and useful for understanding the reasons behind many of the names and traditional uses of wood- and paper-based packaging.

978-1-932078-42-8, 2005, 526 pages, 6x9, HC book, **\$169.50**

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# PAPER MAKING TECHNOLOGY

**2010**

## **Paper Machine Quality Control Systems (QCS), Volume 1**

*Measurement Systems and Product Variability*

K. Figiel, J. Gill, R. MacHattie, S. Nuyan, S. Sturm and J. Tippet

Important book introduces engineers to the many sensors and scanners used for quality control in the paper industry. Book focuses especially on QCS devices introduced in the last 10 years and provides an overview of sensor operation and set up, calibration, paper/roll qualities measured, as well as the underlying software.

978-1-59510-192-1, ©2010 TAPPI, 115 pages, 8.5x10.75, SC book, **\$219.50**

**2008**

## **Micro and Nanoparticles in Papermaking**

Edited by: Jose M. Rodriguez

This volume explains the roles and performance of microparticles in the manufacturing and processing of paper and paper products. It covers key topics such as drainage and retention; cationic microparticles; colloidal silica; organic microparticles; hectorite systems; dual-polymer retention; clay minerals; and electron microscopy.

1-59510-074-1, ©2005, reprinted 2008, 206 pages, 8.5x11, SC book, **\$289.50**

## **Colloid Chemistry of Papermaking Materials**

John W. Swanson and Gerard J.F. Ring

Based on the notes of the well-respected paper chemist, Dr. John Swanson of the University of Wisconsin, this classic book covers papermaking essentials: surface chemistry, colloidal chemistry, sorption, electrokinetic properties, flocculation, internal sizing agents, polymeric additives, and pitch and foam control agents.

1-9306657-87-0, ©2003, reprinted 2008, 284 pages, SC book, **\$169.50**

## **Principles of Wet End Chemistry, 2nd Edition**

William E. Scott

A practical introduction to wet end chemistry as it applies to paper production, this book shows how chemical principles can improve paper processing and quality. It explains the chemistry and structure of fibers/fiber fines, colloids, colors, additives, fillers, and aluminum.

0-89852-286-2, ©1996, reprinted 2008, 186 pages, SC book, **\$129.50**

## **Extrusion Coating Manual, 4th Edition**

Edited by: Thomas Bezigian

This latest edition is a comprehensive guide to extrusion coating processes for paper and packaging. It explains machinery, raw materials, and processing and contains extensive information on resins, screw/die design, polymer melts, and co-extrusion, as well as functionalized polymers and converting for cast film and lamination.

0-89852-067-3, ©1999, reprinted 2008, 312 pages, SC book, **\$189.50**

## **Properties of Paper: An Introduction, Second Edition, Revised**

William E. Scott and James C. Abbott *in collaboration with Stanley Trosset*

Provides a step-by-step guide to the technical characteristics of paper: what they are, how they are related to processing, and how they are tested. The book analyzes paper properties with regards to converting and to their end uses. Throughout, an emphasis is placed on how the properties are influenced by raw materials and manufacturing.

0-89852-062-2, ©1995, reprinted 2008, 219 pages, SC book, **\$69.50**

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# PERIODICALS

## ADVANCED MATERIALS

2013—VOLUME 1

*(A special inaugural discount will apply for all who subscribe to the journal and will include all issues in volumes 1 and 2.)*

### Journal of Multifunctional Composites

Editors-in-chief: Gaurav Nilakantan

**Publications details:** Print ISSN: 2168-4278; Online ISSN: 2168-4246

Print format: 8.5x11

Frequency (2013): Two issues (April, September)

Frequency (2014): Four issues per year (January, April, July, October)

Binding: Perfect bound, Soft cover

The Journal of Multifunctional Composites is dedicated to identifying and publishing original work on multifunctional materials and structures. It welcomes analytical, experimental and computational studies of multifunctional composites covering topics such as design and manufacturing; processing and transport; characterization and properties; interface and damage mechanics; microstructural characterization; modeling and simulation; testing; performance and commercial applications.

#### RATES (Individual and Institutional)

Combined Subscription (Print & Online): **\$480.00** (US) per year

Online Subscription: **\$450.00** (US) per year

Print Subscription: **\$470.00** (US) per year

Single Issue Price: \$130.00 (online version); \$140.00 (print version)

Postage for print-only subscriptions outside US: \$45.00

Individual articles are available for \$35.00 each for immediate online access.

## WATER & WASTEWATER TECHNOLOGY

2013—VOLUME 10

### Journal of Residuals Science & Technology

Editor-in-chief: P. Brent Duncan

**Publications details:** ISSN: 1544-8053

Print format: 8.5x11

Frequency: Four issues per year (January, April, July, October)

Binding: Perfect bound Soft cover

*First issue date: January 2004*

The international *Journal of Residuals Science & Technology* (JRST) is a blind-refereed quarterly devoted to conscientious analysis and commentary regarding significant environmental sciences-oriented research and technical management of residuals in the environment. The journal provides a forum for scientific investigations addressing contamination within environmental media of air, water, soil, and biota and also offers studies exploring source, fate, transport, and ecological effects of environmental contamination. JRST is dedicated to being an important source for latest research and information on detection, measurement, chemistry, toxicology, history, and fate analysis of substances persisting in soil, air, and water after production, transportation, purification, incineration, water and wastewater treatment, injection, composting, and land application for examples. Residuals or contamination may be delineated in terms of chemical characterization, spatial extent and proximity, biological influences, responsible parties or origins, and legal consequences.

#### RATES (Individual and Institutional)

Print or Electronic (searchable PDF) issues: **\$249.00** (US) per year

Print and Electronic: **\$265.00** (US) per year

Single copies: \$65.00 (Print or Electronic), Foreign Subscriptions add \$45.00 for postage

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# PLASTICS/POLYMERS

**2013**

## **Introduction to Polymer Chemistry**

*A Biobased Approach*

Judit Puskas

Designed for polymer and materials engineering students, the text introduces polymer chemistry through polymers found in nature. It explains biobased polymer systems and synthetic systems by exploring the chemistry of natural polymers from plants and animals, as well as self-assembled macromolecular structures, including proteins, lignin, protamers, and fibers. Also covered are synthetic polymerization and emerging advances in green polymer chemistry.

978-1-60595-030-3, June 2013, 280 pages, 6x9, HC book, **\$124.50**

*Student price available*

**2009**

## **Essentials of Polymer Science and Engineering**

Paul C. Painter and Michael M. Coleman

This book is the culmination of decades of imaginative and insightful presentations of polymer science by two of the best-known polymer textbook writers in America. The authors have maintained their informal and humorous literary style and included in this updated text, numerous color illustrations. The book covers the central topics of polymer science and engineering, including polymerization synthesis and kinetics, the application of probability theory, structure and morphology, thermal and solution properties, mechanical properties and processing methods. What makes this book unique (in addition to the authors' well-known style) is the inclusion of brief essays labeled *Polymer Milestones* and *Fascinating Polymers* at pertinent points in the text. The former are cameos describing the contributions of great scientists and interesting characters, while the latter consider specific polymers that have interesting histories or unusual properties. The text is designed for both undergraduates and graduate students that are new to the field and is a great source for industrial scientists. The book contains useful reviews and introductions to basic topics and also comes with extensive problem sets and other materials for instructors.

978-1-932078-75-6, ©2009, 538 pages, 7x10, HC book, **\$194.50**

*Student price available*

**2006**

## **Miscible Polymer Blends**

*Background and Guide for Calculations and Design*

Michael M. Coleman and Paul C. Painter

Offers polymer chemists and engineers a method for very rapidly determining which polymers and co-polymers mix and do not mix. The CD-ROM calculator is designed to aid in determining promising polymer blends for many different applications. A self-guided tutorial on the CD-ROM, as well as an accompanying booklet, presents the theoretical background.

978-1-932078-55-8, ©2006, 40 pages, SC book plus CD-ROM, 6x9, **\$159.50**

## **Single Screw Design**

20 Years of ANTEC: *Practical and Theoretical Technical Papers*

*CD-ROM from SPE*, Edited by the Extrusion Division

With an Introduction by: Timothy P. Womer, President 2006-2007; Society of Plastics Engineers

Containing 165 full-length technical presentations, this CD-ROM is a virtual encyclopedia of practical information on single-screw extrusion: from design, to scale up—to melts, modeling and monitoring—with many product applications.

0-9753707-4-X, ©2006, CD-ROM housed in plastic jewel case, **\$99.00**

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# PLASTICS/POLYMERS

**2004**

## **Painter and Coleman on Polymers**

Disk One—***Polymer Science and Engineering*** (with optional Workbook)

Disk Two—***The Incredible World of Polymers: Tales of Innovation, Serendipity and Perseverance***

Paul C. Painter and Michael Coleman

This 2-CD-ROM set with supplemental Workbook gives students and professionals the best features of a comprehensive introduction to polymers, along with animated movies, hundreds of interactive illustrations, and a fully interlinked glossary of polymer terms, equations, and formulas.

978-1-932078-23-7, 2004, 2-CD-ROM Set in CD Folder.

Regular Price: **\$55.00** (2-CD-ROM Set)

Student Price: **\$39.95**

*CD Sets For PC Only—CD-ROM available on Macintosh with special request.*

Workbook: 978-1-932078-23-7B, 8.5x11, 100 pages, spiral bound SC, **\$37.50**

**2003/2001**

## **2002 End-Use Market Survey on the Polyurethane Industry in the U.S., Canada and Mexico**

Prepared by Ducker Research Company, Inc.; Sponsored by the Alliance for the Polyurethanes Industry (API)

- Detailed, comprehensive analysis of markets for polyurethane materials and applications
- Extensive quantitative data on current demand on all levels from raw materials to end-uses
- Coverage of rigid and flexible foams, coatings, adhesives, sealants, and elastomers

1-932078-24-2, 2003, 242 pages, 8.5x11, SC book, **\$50.00**

## **2000 End-Use Market Survey on the Polyurethane Industry in the U.S., Canada and Mexico**

Prepared by Ducker Research Company, Inc.; Sponsored by the Alliance for the Polyurethanes Industry (API)

1-885432-14-3, 2001, 242 pages, 8.5x11, SC book, **\$35.00**

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# RELIABILITY ENGINEERING

**2002 new/updates**

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## **Robust Engineering Design-By-Reliability with Emphasis on Mechanical Components and Structural Reliability, Volume 1**

Dimitri B. Kececioglu

This book, written by the world's foremost expert in Reliability Engineering, is the first to provide an advanced methodology to achieve optimum designed-in reliability of products and components.

978-1-932078-07-7, ©2002, 722 pages, 6x9, HC book, **\$109.50**

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## **Burn-In Testing—Its Quantification and Optimization**

Dimitri B. Kececioglu and Feng-Bin Sun

Burn-in testing (an alternative to ESS) is widely used as an aid in producing failure-free electronic components. When scientifically planned and conducted, burn-in-testing offers one of the most effective methods of reliability screening at the component level.

978-1-932078-06-0, ©1997, updated 2002, 698 pages, 6x9, HC book, **\$99.50**

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## **Environmental Stress Screening— Its Quantification, Optimization and Management**

Dimitri B. Kececioglu and Feng-Bin Sun

With the growth of the electronics industry, environmental stress screening (ESS) has become an essential tool for the production of failure-free electronic assemblies, modules and systems.

978-1-932078-04-6, ©1993, updated 2002, 548 pages, 6x9, HC book, **\$99.50**

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## **Reliability & Life Testing Handbook, Volume 1**

Dimitri B. Kececioglu

Each volume is a complete guide and reference to product reliability testing. Encyclopedic in scope, it covers all steps from planning and test selection to test procedure and results analysis. Volume 1 delivers must-have information on a variety of distributions, including the Chi-Square, Exponential, Normal, Lognormal, Weibull, Gamma, and others.

978-1-932078-02-2, ©1993, updated 2002, 941 pages, 6x9, HC book, **\$99.50**

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## **Reliability & Life Testing Handbook, Volume 2**

Dimitri B. Kececioglu

This volume includes the binomial tests of comparison and up-to-date information on Accept-Reject Tests, the Sequential Probability Ratio Test, Bayesian MTBF and Reliability Demonstration Tests, as well as other very important accelerated tests such as Arrhenius, Eyring, Bazovsky, and Inverse Power Law.

978-1-932078-03-9, ©1993, updated 2002, 877 pages, 6x9, HC book, **\$99.50**

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## **Maintainability, Availability & Operational Readiness Engineering Handbook, Volume 1**

Dimitri B. Kececioglu

Preventive maintenance engineering can significantly contribute to productivity and cost-reduction in any industry dependent upon machinery and equipment. This handbook provides a comprehensive guide to advanced strategies and procedures for this vital function.

978-1-932078-05-3, ©1992, updated 2002, 803 pages, 6x9, HC book, **\$99.50**

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# RELIABILITY ENGINEERING

**2002 updates**

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## **Reliability Engineering Handbook, Volume 1**

Dimitri B. Kececioglu

The demand for reliable products, components, and systems has never been greater, especially among organizations seeking greater competitiveness in world markets. This handbook is widely used in engineering education and industrial practice. It provides a comprehensive, systematic presentation of today's reliability engineering for optimized design engineering of products, parts, components and equipment.

978-1-932078-00-8, ©1991, updated 2002, 720 pages, 6x9, HC book, **\$99.50**

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## **Reliability Engineering Handbook, Volume 2**

Dimitri B. Kececioglu

Expanding on the coverage provided in Volume 1, Volume 2 covers the prediction of equipment and system reliability for the series, parallel, standby, and conditional function configuration cases and discusses the prediction of the reliability of complex components, equipment, and systems with multimode function and logic, multistress level of function, load sharing function mode, static switches, cyclic switches, and fault tree analysis.

978-1-932078-01-5, ©1991, updated 2002, 576 pages, 6x9, HC book, **\$99.50**

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# UTILITY MANAGEMENT

## 2012

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### **Creating and Managing Sustainable Organizations**

Roopchan Lutchman

Explains how to form and manage a self-sustaining business or public utility by providing techniques organizations must apply to remain adaptable and meet the needs of customers and employees while facing a variety of business challenges, from worker quality to increasing costs and global competition. The book includes numerous examples from the public and private sectors.

978-1-60595-041-9, ©2012, 160 pages, 6x9, SC book, **\$59.95**

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## 2006

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### **Sustainable Asset Management**

*Linking Assets, People, and Processes for Results*

Roopchan Lutchman

This book, by one of North America's leading specialists, presents new ways of maintaining and improving assets in utilities and manufacturing environments.

978-1-932078-47-3, ©2006, 270 pages, 6x9, HC book, **\$69.50**

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## 2004

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### **Computerized Work Management Systems for Utility and Plant Operations**

Roopchan Lutchman

This book shows how new computerized technologies can be used to create more cost-effective work management—and improved asset management.

978-1-932078-30-5, ©2004, 207 pages, 6x9, HC book, **\$59.50**

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