

PUBLICATIONS CATALOG

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- ADVANCED MATERIALS ■ EDUCATION
- ENVIRONMENTAL TECHNOLOGY ■ FOOD SCIENCE
- MACHINERY/MANUFACTURING ENGINEERING
- NURSING/HEALTHCARE ■ PACKAGING TECHNOLOGY
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- RELIABILITY ENGINEERING ■ UTILITY MANAGEMENT
- SPORTS INSTRUCTION



DEStech Publications, Inc.

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2021

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ADVANCED MATERIALS

2021

American Society for Composites – Thirty-sixth Technical Conference

Proceedings: September 19-22, 2021, College Station, TX (Virtual Conference)

Edited by: Anastasia Muliana and John Whitcomb

Papers are organized around the theme Composites Ingenuity Taking on Challenges of Environment-Energy-Economy. Articles cover recent research and development in aircraft, spacecraft, and other emerging application areas.

978-1-60595-686-2, September 2021, Online: eProceedings, **\$125.00**

Photopolymerization Chemistry and Technology

Byron Christmas and Michael Idacavage

This book introduces the theory of light-induced polymerization utilizing ultraviolet (UV) and visible light and electron beams (EB) as the initiators, beginning with an analysis of the physical chemistry of photopolymerization and its advantages and disadvantages compared to other types. The volume explains how the underlying chemical reactions relate to the types of processes selected and product quality, with an in-depth consideration of the raw materials and equipment required for efficient UV and EB curing. Special attention is given to the principles of formulation and to applications where this type of curing leads to higher quality products at lower costs.

978-1-60595-427-1, December 2021, 300 pages, 6x9, HC book, **\$159.50**

Online: eBook, **\$125.00**

Structural Health Monitoring in Sensor-Integrated Smart Composites

From Characterization to Application

Hossein Montazerian, Mina Hoorfar, and Abbas Milani

Book investigates external and self-sensing sensors for the health monitoring of composite materials and technically evaluates sensor advantages and disadvantages in terms of robustness and signaling, as well as their suitability for structural health monitoring (SHM) in different types of composites. The authors explain how piezoelectric, piezo-resistive, and optical fiber sensors are fabricated, embedded, and tested under different loading conditions, with special attention to the design and signaling of piezo-resistive devices. Data and modeling are provided from tests of a piezo-resistive polymeric composite sensor made with chopped carbon fibers and embedded in woven composites.

978-1-60595-597-1, December 2021, 150 pages, 6x9, SC book, **\$99.50**

Online: eBook, **\$79.00**

Structural Health Monitoring 2021

Proceedings of the Thirteenth International Workshop, August 31-September 2, 2021, Stanford University

Edited by: Fu-Kuo Chang

The newest proceedings in a workshop series that assesses the current state-of-the-art technologies and identifies key breakthroughs and emerging R&D challenges that are critical to structural health monitoring. The current workshop features reviews of recent SHM growth and the perspectives of future SHM directions in research and applications. Papers in support of autonomous inspection and/or intelligent data-driven diagnostic systems and the Industry Internet of Things (IIOT) for preventive maintenance will be highlighted besides general applications in aerospace, mechanical engineering and civil infrastructure.

978-1-60595-687-9, September 2021, 3,500 pages, 2 Volumes, 6x9, HC book, **\$315.00**

Online: eProceedings, **\$225.00** (individual articles for \$25.00 each)

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ADVANCED MATERIALS

2021

Structural Textile Composite Materials

Chris Pastore, Cagri Aryanci and Frank Ko

This textbook is a technical introduction to the design, manufacture, and testing of textile composite materials. Written by experts in both textiles and materials science, the book covers the formation of near-net-shape composites from 2-D and 3-D textiles made from natural yarns and fabrics as well as synthetic fibers such as carbon, with a special stress on preforms. This is followed by a description of how textile composites are made with polymer, metal, and ceramic matrices. Design calculations are provided, starting with micromechanical features and moving toward finished components. The experiments and tests unique to textile composites are outlined and differentiated from tests for monolithic and laminated materials.

978-1-60595-224-6, December 2021, 200 pages, 6x9, HC book, **\$109.50**

Online: eBook, **\$89.00**

Thermal Conductivity 34/Thermal Expansion 22

Proceedings of the 34th International Thermal Conductivity Conference and the 22nd International Thermal Expansion Symposium, June 17-20, 2019

Edited by: John McCaffrey and Jason Saienga

Newest publication from the ITCC/ITES book series. Refereed papers include applications related to thermophysical properties, measurement methods, equipment, processes, theory, and new developments.

978-1-60595-666-4, ©2021, 358 pages, 6x9, HC book, **\$129.50**

Tooling for Composite Parts and Assemblies

An Introduction for Manufacturing Professionals

Dave Dickson

Written to be used as both a student textbook and a practical reference, the proposed book explains the methods of tooling for composites manufacturing, along with approaches for selecting and applying the methods. The book discusses different composite designs and relates this information to fabrication technologies and their associated types of tooling. The text lays out the advantages and disadvantages of tooling strategies and clarifies the risks associated with each. Included are numerous examples, as well as troubleshooting guidelines.

978-1-60595-681-7, August 2021, 300 pages, 6x9 HC book, **\$189.50**

Online: eBook, **\$150.00**

2020

Additive Manufacturing of Metals

Leila Ladani

A technical introduction to additive manufacturing (AM) with a focus on metals and powder bed processes, this book explains the materials and fabrication of AM parts using design and engineering parameters. The book shows the workings and limitations of electron beam and laser melt technologies for manufacturing multi-shape components with a variety of metal powders. Information is provided on current test methods, melting temperatures, build-up strategies, as well as quality control and reliability. Modeling techniques are described for build and process design. Each chapter includes a set of questions that illustrate problems routinely encountered in AM manufacturing.

978-1-60595-600-8, ©2020, 265 pages, 6x9, HC book, **\$154.50**

Online: eBook, **\$125.00**

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ADVANCED MATERIALS

2020

American Society for Composites—Thirty-fifth Technical Conference *held jointly with the ASTM-D30 Meeting*

Proceedings. September 14-17, 2020, Jersey City, NJ (Virtual Conference)

Edited by: Kishore Pochiraju and Nikhil Gupta

Papers are organized around the theme Digital Manufacturing Design and Additive Manufacturing. Articles cover recent research and development in aircraft, spacecraft, and other emerging application areas.

978-1-60595-665-7, ©2020, USB Flash Drive or CD-ROM, **\$175.00**

Online: eProceedings, **\$125.00**

Asphalt Paving Technology 2019

Volume 88, Journal of the Association of Asphalt Paving Technologies

Edited by: Rebecca S. McDaniel

Refereed research reports on the latest advances in asphalt technology, including pavement rehabilitation, recycled materials content, airport pavements, and performance evaluation.

978-1-60595-661-9, ©2020, 911 pages, 6x9, HC book, **\$200.00**

Ceramic Matrix Composites

Characterization, Analysis, and Applications

Yasser Gawayed and Greg Ojard

This text brings together the technical elements needed to engineer ceramic matrix composites for aerospace and other applications. It also explains the technical data that regulates all phases of ceramic composite processing. A major feature of the book is to show how variables in reinforcements, fabrication techniques, and materials affect the properties and quality level of ceramic composites, thereby offering a path forward for design engineers. It shows what materials work best, how fabric reinforcements should be configured, and the pros and cons of PIP, CVI, and MI. Mathematically, detailed guidance is given on how to model CMCs. To complement modeling, a full spectrum of test methods is provided, including ways to determine time-dependent behavior under loading conditions.

978-1-60595-221-5, ©2020, 260 pages, 6x9, HC book, **\$154.50**

Online: eBook, **\$120.00**

Crashworthy Composite Structures

Aircraft & Vehicle Applications

David C. Fleming and Linda E. Jackson

This text investigates the variables needed to design and implement effective crashworthy composite materials, with the first part devoted to the scientific background of crashworthiness in terms of materials, measurements of impact, and animal and human responses to crashes. The book explains the concepts and materials needed to enable vehicles and their inhabitants to withstand catastrophic forces, including the design of survival cells and their surrounding architecture. The physics of impact behavior and energy absorption are presented, and the authors show how these principles apply to energy-absorbing composite materials from the microstructural level to the behavior of full-scale components. Original test protocols and data along with an array of computer simulations are included to assist readers in designing composites for crashworthiness.

978-1-60595-646-6, ©2020, 330 pages, 6x9, HC book, **\$169.50**

Online: eBook, **\$135.00**

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ADVANCED MATERIALS

2020

Fatigue Consideration in Machine Design

Essentials of Endurance Analyses

Robert E. Little

This book provides a unique mechanical metallurgy perspective in presenting classic fatigue testing theories with a highly practical approach. Coverage includes Wöhler's tests, fatigue crack initiation, fatigue effects, generalized fatigue models, fatigue factor of safety, and bolted joints.

978-1-60595-605-3, ©2020, 202 pages, 6x9, SC book, **\$89.50**

Online: eBook, **\$50.00**

Student Price Available

2019

American Society for Composites—Thirty-fourth Technical Conference

Proceedings, September 23-25, 2019, Georgia Tech, Atlanta, GA

Edited by: Kyriaki Kalaitzidou

Papers on composite materials engineering and science. Articles cover recent research and development in aircraft, spacecraft, and other emerging application areas.

978-1-60595-602-2, ©2019, USB Flash Drive or CD-ROM, **\$175.00**

Online: eProceedings, **\$150.00** (individual articles for \$25.00 each)

Asphalt Paving Technology 2018

Volume 87, Journal of the Association of Asphalt Paving Technologists

Online: eProceedings, **\$200.00**

OUT-OF-PRINT

Ballistics 2019

31st International Symposium, November 4-8, 2019, Hyderabad, India

Edited by: V. K. Saraswat, G. Satheesh Reddy and Clive Woodley

This latest edition includes the most current state-of-the-art technology in Ballistics. The two volumes contain original research papers on all phases of ballistics. Topics include interior and exterior ballistics, launch dynamics, explosion mechanics, impact physics, and vulnerability & survivability.

978-1-60595-610-7, ©2019, 2,660 pages, 2 volumes, 6x9, HC book, **\$299.00**

Online: eProceedings, **\$245.00**

Convective Burning and Low-Velocity Detonation in Porous Media

Boris Ermolaev and Alexey Sulimov; Edited by Anna Crowley

Endorsed by the International Ballistics Society

This book presents original research into the behavior, ignition mechanisms, and wave structure of convective burning and low-velocity detonations (LVD). Such processes occupy an intermediate position between modes of normal combustion and normal detonation, and their properties directly affect the dynamics of explosions, including unplanned explosions caused by accidental ignition. The book presents ways of stabilizing convective burning and LVD and controlling their properties, thus enabling one to manage potentially dangerous hazards of transition to normal detonation. In addition, the book provides a scientific foundation for the technical application of these processes in pulse-nozzle and missile devices and in jet injectors. It also offers new studies on compacted modified propellants, which, due to their burning mechanisms, can significantly enhance the performance of barrel systems.

978-1-60595-565-0, ©2019, 352 pages, 6x9, HC book, **\$169.50**

Online: eBook, **\$125.00**

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ADVANCED MATERIALS

2019

Energy Harvesting

Materials, Physics, and System Design with Practical Examples

Ravi A. Kishore, Anthony Marin, Congcong Wu, Ashok Kuma and Shashank Priya

This text investigates the materials science and physics of energy harvesting, with a focus on system configuration and efficient performance. It presents the mathematical theory of materials, electrical conductivity, and device design for vibration-based harvesters, thermoelectrics, photovoltaics, wind-energy turbines, and hybrids thereof, e.g., piezoelectrics in wind turbines, as well as approaches using shape-memory alloys, thermomagnetism, and electrostatic generation. Information is provided on testing, characterization, and modeling of EH systems, with extensive equations analyzing materials and energy flow. Circuitry, batteries, and capacitors are also covered. An appendix includes ANSYS codes for finite element analysis of magnetic flux devices. Materials scientists, energy harvesting developers, and renewable energy specialists will find the book to be a key resource.

978-1-60595-122-5, ©2019, 280 pages, 6x9, HC book, **\$169.50**

Online: eBook, **\$99.50**

Student Price Available

Fourth Symposium on Automated Composite Manufacturing (ACM4)

Edited by: Suong V. Hoa

Summarizing recent work on thermoset and thermoplastics composites manufacturing automation, this volume contains original presentations on technologies such as: automated dry fiber placement; manufacturing complex shapes; 4D printing of composite structures, process development and optimization, mechanical performance of fiber-placed structures; and virtual manufacturing environments.

978-1-60595-603-9, ©2019, 248 pages, 6x9, SC book, **\$95.00**

Structural Health Monitoring 2019

Proceedings of the Twelfth International Workshop, September 10-12, 2019, Stanford University

Edited by: Fu-Kuo Chang

The newest proceedings in a workshop series that assesses the current state-of-the-art technologies and identifies key breakthroughs and emerging R&D challenges that are critical to structural health monitoring. The current volumes feature reviews of SHM growth in the last two decades and the perspectives of future SHM directions in research and applications. Papers in support of autonomous and/or intelligent systems and the Industry Internet of Things (IIOT) are highlighted in addition to the general applications in aerospace, mechanical and civil infrastructure.

978-1-60595-601-5, ©2019, 3,576 pages, 2 Volumes, 6x9, HC book, **\$315.00**

Online: eProceedings, **\$225.00** (individual articles for \$25.00 each)

The Physics of Multifunctional Materials

Concepts, Materials, Applications

Martin Gurka

Presents and explains the foundational concepts of the most commonly used multifunctional materials as an underpinning to addressing manufacturing and processing, and to evaluating new multifunctional materials based on underlying mechanisms. Covers the principles of functionality of piezoceramics, shape memory alloys and switchable fluids.

978-1-60595-260-4, ©2019, 184 pages, 6x9, HC book, **\$149.95**

Online: eBook, **\$120.00**

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ADVANCED MATERIALS

2018

2nd International Workshop on Structural Health Monitoring for Railway System (IWSHM-RS 2018)

Proceedings of the Second International Workshop, October 17-19, 2018

Edited by: Fuhai Ma, Jun Wang, Sansan Ding and Fu-Kuo Chang

Over 90 selected papers from this conference present the latest research on applying structural health monitoring to railways under the theme Real Time Safety Assurance and Life-time Operation Efficiency. Papers discuss a range of EMU equipment, as well as advanced high-speed lines, and MagLev trains.

978-1-60595-572-8, ©2018

Online: eProceedings, **\$89.50**

American Society for Composites—Thirty-third Technical Conference

held jointly with 18th US-Japan Conference on Composite Materials and ASTM-D30 Meeting

Proceedings, September 24-26, 2018, University of Washington, Seattle, WA

Edited by: Anthony Waas

Papers on composite materials engineering and science with a focus on design for manufacturability. Articles cover recent research and development in aircraft, spacecraft, and other emerging application areas.

978-1-60595-534-6, ©2018, USB flash drive, **\$175.00**

Online: eProceedings, **\$150.00** (individual articles for \$25.00 each)

Asphalt Paving Technology 2017

Volume 86, Journal of the Association of Asphalt Paving Technologists

Edited by: Rebecca S. McDaniel

Refereed research reports on the latest advances in asphalt technology, including pavement rehabilitation, recycling agents, and test methods. Tests investigate the long-term behavior of asphalt and the effects of age and fatigue. A special feature of this volume is a presentation on the increased use of rubberized asphalt and the challenges and opportunities provided.

978-1-60595-493-6, ©2018, 792 pages, 6x9, HC book/CD-ROM, **\$200.00**

Online: eBook, **\$200.00**

Design, Manufacturing and Applications of Composites

Proceedings of the Twelfth Joint Canada-Japan Workshop on Composites

Edited by: Louis Laberge Lebel and Asami Nakai

Important reference book on composite materials manufacturing technologies from Japanese and Canadian researchers. Articles in advanced manufacturing technologies reports including CFRP and additive manufacturing and papers on application areas include aircraft, piping, fasteners and more. Edited by two internationally regarded materials science professors, this book is an important extension of a series presenting composites research from Canada and Japan.

ISBN: 978-1-60595-568-1, ©2018, 421 pages, 6x9, SC book, **\$175.00**

Online: eBook, **\$125.00**

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ADVANCED MATERIALS

2018

Heat Transfer in Composite Materials

Seiichi Nomura and A. Haji-Sheikh

This book provides analytical methods for predicting temperature distribution in isotropic and anisotropic composite media for both steady and transient states, with a focus on how temperature differences affect the properties of composite materials.

978-1-60595-459-2, ©2018, 215 pages, 6x9, HC book, **\$134.50**

Online: eBook, **\$105.00**

Principles of the Manufacturing of Composite Materials

Second, Expanded Edition

Suong V. Hoa

New composites, including conductive materials, and a variety of automated and semi-automated processes have been added to this comprehensive textbook, which explains the principles of traditional and emerging technologies for manufacturing composite materials. In this edition, polymer nanocomposites are more fully described. Out-of-autoclave methods, thermostamping, and automated fiber placement (AFP) are analyzed in greater depth, and an entire new chapter has been added on automation. An original feature of this book is description of the 4D printing technique, which combines 3D printing and automated shape configuration in a unified process.

978-1-60595-421-9, ©2018, 445 pages, 6x9, HC book, **\$189.50**

Online: eBook, **\$99.50**

Student Price Available

Surfactant Science

Principles and Practice

Steven Abbott

This volume presents a practical guide to surfactant science and provides a technical resource for characterizing and formulating surfactants. It goes beyond standard guidelines and focuses on surfactant phenomena as a dynamic system. In explaining how property variables affect formulation results, the book offers numerous original phase diagrams and equations.

978-1-60595-484-4, ©2018, 198 pages, 7x10, HC Book, **\$97.50**

Online: eBook, **\$72.50**

Thermal Conductivity 33/Thermal Expansion 21

Proceedings of the 33rd International Thermal Conductivity Conference and the 21st International Thermal Expansion Symposium, May 15-18, 2017

Edited by: Heng Ban

Publication from the ITCC/ITES book series. Edited papers include applications related to thermo-physical properties measurement methods, equipment, processes, theory, and new developments.

978-1-60595-535-3, ©2018, 265 pages, 6x9, HC book, **\$129.00**

Online: eProceedings, **\$99.50**

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ADVANCED MATERIALS

2017

American Society for Composites—Thirty-second Technical Conference

Proceedings, October 22-25, 2017, West Lafayette, IN

Edited by: Wenbin Yu, R. Byron Pipes and Johnathan Goodsell

Original research reports from U.S. and Canadian universities are included in this publication. It focuses on the design, manufacturing and testing of advanced composite materials, including ways of monitoring composite fabrication parameters and functionalizing composites' properties.

978-1-60595-418-9, ©2017, CD-ROM in plastic jewel case, **\$150.00**

Online: eProceedings, **\$125.00** (individual articles for \$25.00 each)

Asphalt Paving Technology 2016

Volume 85, Journal of the Association of Asphalt Paving Technologists

Edited by: Eugene L. Skok

Refereed papers investigate asphalt mixes, test methods, pavement performance, and experimental binders, such as recycled oil, with a special reference section on balanced mixed design.

978-1-60595-404-2, ©2017, 903 pages, 6x9, HC book/CD-ROM, **\$200.00**

Online: eProceedings, **\$200.00**

Ballistics 2017

30th International Symposium, September 11-15, 2017, Long Beach, California

Edited by: Sidney Chocron and James Walker

Includes 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.

978-1-60595-419-6, ©2017, 1,440 pages, 2 volumes, 6x9, HC book, **\$275.00**

Online: eProceedings, **\$200.00**

Design, Manufacturing and Applications of Composites

Proceedings of the Joint Canada-Japan-Vietnam Workshop on Composites

August 8-10, 2016, Ho Chi Minh City, Vietnam

Edited by: Suong V. Hoa, Hiroyuki Hamada and Huynh Dai Phu

The joint Canada-Japan-Vietnam workshop on composites is a continuation of the series of Canada-Japan workshops on composites held every two years since 1996. The workshop in 2016 was held in Vietnam, and involved a third country (Vietnam). The proceedings contain papers from scientists and engineers from the three countries. It covers many aspects on composites, with emphasis on composites made from natural resources such as fibers and resins.

978-1-60595-326-7, ©2017, 421 pages, 6x9, SC book, **\$125.00**

Online: eProceedings, **\$75.00**

Essentials of the Mechanics of Materials

Third Edition

George Frantziskonis

The latest edition of this textbook includes expanded problem sets and materials for instructors. The book is well suited for both onsite and distance-university courses, because it clearly and concisely presents the theoretical concepts and equations that illustrate the behavior of material structures under standard stresses and strains. For students in civil, environmental and chemical engineering.

978-1-60595-414-1, ©2017, 342 pages, 8.5x11, SC book, **\$74.50**

Online eBook: 978-1-60595-430-1, **\$54.50**

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ADVANCED MATERIALS

2017

Ferroelectric Devices & Piezoelectric Actuators

Principles, Problems and Common Misconceptions

Kenji Uchino

Investigates basic principles and shared understandings regarding the materials and properties of piezoelectrics and dielectrics, including concepts such as electrostriction, ionic displacement strain, transmission coefficient, constraint dependency, mechanical impedance matching and more. The author demonstrates how misuse of selected ideas and formulas can negatively influence research and shows how to correct these faulty approaches. The volume also contains problems and solutions associated with the design and performance of dielectrics, memory devices, piezoelectrics, electrooptic and pyroelectric devices and more.

978-1-60595-312-0, ©2017, 244 pages, 6x9, SC book, **\$69.50**

Online: eBook, **\$50.00**

Fundamentals of Electrospinning & Electrospun Nanofibers

Tong Lin and Jian Fang

This book reviews and analyzes the methods whereby nanofibers are spun, collected and fabricated into various fibrous structures. Explains the workings, quantitative specifications and set-up of virtually all formation technologies, including solvent and solvent-free, as well as needle and needleless spinning methods for nanofibers made from polymers, carbon and other materials. Practical information is provided for understanding and designing devices to fabricate nanofibers with many different shapes and internal structures. Special attention is given to strategies for overcoming defects in nanofibers and controlling their overall quality.

978-1-60595-160-7, ©2017, 250 pages, 6x9, HC book, **\$139.50**

Online: eBook, **\$110.00**

Structural Health Monitoring 2017

Real-Time Material State Awareness and Data-Driven Safety Assurance

Proceedings of the Eleventh International Workshop, September 12-14, 2017, Stanford University

Edited by: Fu-Kuo Chang and Fotis Kopsaftopoulos

This important series collection is available both in print as a hardcover in two volumes and as downloadable in digital format. The text features hundreds of papers detailing new research on structural health monitoring (SHM) using a variety of signal types and processing strategies. A main focus of the book is technology enabling real-time analysis and management of structures. Articles include information on applications in support of autonomous and/or intelligent systems, as well as SHM systems in aircraft, buildings, bridges, railroad and sustainable energy facilities. The volumes assess state-of-the-art technologies for sensors, waveguides, materials, energy, damage detection, testing and quality control.

978-1-60595-330-4, ©2017, 3,338 pages, 2 Volumes, 6x9, HC book, **\$275.00**

Online: eProceedings, **\$200.00** (individual articles for \$25.00 each)

Third Symposium on Automated Composite Manufacturing (ACM3)

Edited by: Suong V. Hoa

Summarizing recent work on thermoset and thermoplastics composites manufacturing automation, this volume contains original presentations on technologies such as: automated dry fiber placement; manufacturing complex shapes; fiber steering and variable stiffness; automation equipment; mechanical performance of fiber-placed structures; and virtual manufacturing environments.

978-1-60595-431-8, ©2017, 260 pages, (book OUT-OF-PRINT)

Online: eProceedings, **\$85.00**

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ADVANCED MATERIALS

2016

1st International Workshop on Structural Health Monitoring for Railway System (IWSHM-RS 2016)

Proceedings of the First International Workshop, October 12–14, 2016

Edited by: Jun Wang, Yunshuang Ma and Fu-Kuo Chang

Recent online railway technology research.

978-1-60595-371-7, ©2016, Online: eProceedings, **\$50.00**

American Society for Composites—Thirty-first Technical Conference

held jointly with ASTM-D30 Meeting

Proceedings, September 19–22, 2016, Williamsburg, VA

Edited by: Barry Davidson, James Ratcliffe and Michael Czabaj

Papers on composite engineering and science including additive manufacturing, design and manufacturing, functional materials and structure, armor & protection, flammability of composites, crashworthiness, marine composites, testing and characterization, multifunctional and smart composites, textile and 3D composites, progressive damage modeling, stability & postbuckling, natural, bio-based, green, and novel composites, ACP (NASA advanced composites project), space applications, automotive composites, civil structures, micromechanics, impact & dynamic response and more.

978-1-60595-316-8, ©2016, CD-ROM in plastic jewel case, **\$150.00**

Online: eProceedings, **\$100.00** (individual articles for \$25.00 each)

Asphalt Paving Technology 2015

Volume 84, Journal of the Association of Asphalt Paving Technologists

Edited by: Eugene L. Skok

Features research presentations devoted to the chemistry, engineering, modeling and testing of asphalt materials and processing. Developments in the use of components like bio-oil are discussed, as are strategies for testing asphalt components for wear and durability at low and high temperatures.

978-1-60595-294-9, ©2016, 768 pages, 6x9, HC book/CD-ROM, **\$200.00**

Ballistics 2016

29th International Symposium, May 9–13, 2016, Edinburgh, Scotland, UK

Edited by: Clive Woodley and Ian Cullis

978-1-60595-317-5, ©2016, 3,870 pages, (book OUT-OF-PRINT)

Online: eProceedings, **\$250.00** (individual articles for \$25.00 each)

DURACOSYS 2016

12th International Conference on Durability of Composite Systems

Proceedings, June 12–15, 2016, University of Texas at Arlington

Edited by: Ken Reifsnider

Papers presented will focus on the science, ideas, and methods that enable applications, and the challenges that result from engineering development. Topics include manufacturing: defects, modeling, remediation; light-weighting and vehicular applications, analysis methods, durability of bio-composite systems, composite materials in civil infrastructure and composites for extreme environments.

978-1-60595-318-2, ©2016, Online: eProceedings, **\$50.00**

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ADVANCED MATERIALS

2016

Mechanical Behavior of Thick Composites

International Workshop, March 14-15, 2016, Montreal, Canada

Edited by: Suong V. Hoa, et al.

The workshop intends to provide a forum for exchange of information on latest work done to understand the mechanical behavior of thick composites (more than 3 mm thick). Topics addressed include: Applications, Manufacturing processes, Quality Inspection, Stress analysis, Fracture, Fatigue, Experimental measurements and more.

978-1-60595-319-9, ©2016, 141 pages, 6x9, SC book, **\$79.50**

Shape-Memory Polymers for Aerospace Applications

Novel Activation, Modeling, Characterization and Design

Edited by: Gyaneshwar Tandon, Amber McClung and Jeff Baur

This contributed volume investigates the parameters of shape-memory polymers (SMPs) required by aerospace, including synthesis, characterization, activation, and application in aircraft and space vehicles. It explains the chemistry and design of novel SMPs to meet the special demands of aeronautic performance, including heat and impact resistance, limited operational energies, aerodynamics, loading etc. The text analyzes and assesses shape-memory polymers and also composites and hybrid materials designed for use in reconfigurable applications in the military and commercial sectors, especially for morphing aircraft, micro air vehicles, deployable space structures, and adaptive engines. The chapters span novel synthesis, chemistry and activation of shape memory resins, constituent modeling and characterization methods, predictive methodologies, experimental validation, and case studies illustrating material property needs, design requirements and material performance.

978-1-60595-118-8, ©2016, 658 pages, 6x9, HC book, **\$175.00**

Online: eBook, **\$125.00**

Structures in Fire

Proceedings of the 9th International Conference (SiF'16)

June 8-10, 2016, Princeton University, Princeton, NJ

Edited by: Maria E. Moreyra Garlock

This book offers original research on how materials integrated into a variety of structures react to fire. Based on experiments as well as model calculations, the book presents key data to engineers and fire specialists required to understand and predict the material behavior of many types of structure-embedded elements, including ones made from composites, steel, aluminum, masonry and wood.

978-1-60595-320-5, ©2016, 1,170 pages, 6x9, SC book, **\$150.00**

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ADVANCED MATERIALS

2015

Adhesion Science

Principles and Practice

Steven Abbott

This important and pioneering technical book collates and explains the theoretical principles underlying adhesion and adhesives, including strong and "weak" bonds plus pressure-sensitive (PSA) across many polymer, metal and ceramic adherends. The author shows how adhesion-related chemistry and physics, clearly displayed in mathematical formulas, can clarify surface properties as well as the characteristics of good and bad adhesion, including multiple types of failure. The book provides science-based methods to predict, test and formulate adhesives. To this end, it includes access to a unique set of applied computer programs or "apps" that automate a wide range of adhesive formulas and allow engineers and formulators to input data and study the effect of adhesion properties in conjunction with and even prior to chemical compounding and empirical testing.

Print: 978-1-60595-178-2, ©2015, 320 pages, 6x9, HC book, **\$158.50**

Online: eBook: 978-1-60595-228-4, **\$117.00**

American Society for Composites—Thirtieth Technical Conference

Proceedings, September 28-30, 2015, Michigan State University, Lansing, MI

Edited by: Xinran (Sharon) Xiao, Alfred Loos and Dahsin Liu

Papers on composite engineering and science including material development, processing, design and manufacturing, functional materials and structure, analysis, computation, testing, nondestructive evaluation, structure health monitoring, durability and damage tolerance, failure and fracture, fatigue, impact, blast, lightning, crashworthiness, composite applications in aerospace, automotive, transportation, civil structures, energy generation and storage, and repair technology.

978-1-60595-225-3, ©2015, CD-ROM in plastic jewel case, **\$150.00**

Online: eProceedings, **\$125.00** (individual articles for \$25.00 each)

Asphalt Paving Technology 2014

Volume 83, Journal of the Association of Asphalt Paving Technologists

Edited by: Eugene L. Skok

Features research presentations devoted to the chemistry, engineering, modeling and testing of asphalt materials and processing. Developments in the use of components like bio-oil are discussed, as are strategies for testing asphalt components for wear and durability at low and high temperatures.

978-1-60595-206-2, ©2015, 763 pages, 6x9, HC book/CD-ROM, **\$200.00**

Chemistry, Materials, and Properties of Surface Coatings

Traditional and Evolving Technologies

Güngör Gündüz

This professional reference presents the basic science, as well as formulation, synthesis and manufacturing technologies of paints, polymer and inorganic coatings. The book forms a comprehensive guide to the materials engineering of surface coatings, including binders and solvents, and addresses practical issues such as adhesion, shelf-life, durability, hardness, mechanical and other qualities. It explains anti-corrosive, conductive, self-cleaning, self-healing paints plus eco-friendly powder and UV technologies. Attention is given to metallic and non-metallic pigments and special purpose paints for marine, automotive, and aerospace applications.

978-1-60595-066-2, ©2015, 768 pages, HC book, **\$189.50**

Online: eBook, **\$145.00**

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ADVANCED MATERIALS

2015

Design, Manufacturing and Applications of Composites

Proceedings of the Tenth Canada-Japan Workshop on Composites

August 19-21, 2014, Vancouver, BC, Canada

Edited by: R. Vaziri, A. Nakai, B. Crawford, M. Hojjati, T. Kosaka and S. Hoa

This book in the series spans across all areas in composite design and manufacturing. Papers focused on fundamental research, engineering R & D and industrial applications with the intention of promoting the innovative use of knowledge in equal measure to its creation are presented.

978-1-60595-169-0, ©2015, 402 pages, 6x9, SC book, **\$125.00**

Engineering Fundamentals of Ring Spinning/Twisting, Over-end Unwinding and Two-for-One Twisting in Textile Processes

Engineering with Fibers Series

Subhash K. Batra and W. Barrie Fraser

Using basic physics and engineering principles, this technical book offers an integrated approach for theoretically modeling a number of critical processes in the production of yarns and their subsequent preparation to make costly downstream conversion processes in the textile industry more efficient. The models provide practical insight into the physics of the phenomena and explain hitherto unintelligible observations, including the encountered engineering limitations.

978-1-60595-172-0, ©2015, 188 pages, 6x9, HC book, **\$125.00**

Online: eBook, **\$90.00**

Guide to Modeling Thermoplastic Composite Manufacturing Processes

Optimizing Process Variables and Tooling Design Using Finite Element Analysis

Abbas Milani and Corey Lynam

Explains methods for building comprehensive finite element-based models/programs for the purpose of optimizing process variables and predicting dimensional distortions during the manufacturing of thermoplastic matrix composite parts. Provides a step-by-step approach to predict the magnitude of distortion via easily available FE codes. The approach connects testing, material characterization, modeling, simulation and optimization and is illustrated in a multi-staged, rolled continuous thermoplastic woven fabric laminate, which can be readily applied to other materials and processes. The method reduces the need for costly and time-consuming re-tooling in parts design.

978-1-60595-042-6, ©2015, 100 pages, 6x9, SC book, **\$97.50**

Online: eBook, **\$72.50**

Joining Composites via Adhesives

Theory and Applications

Edited by: Magd Abdel Wahab

A comprehensive technical introduction to the theory and practice of how adhesives are used to join different types of composite materials (including polymers, metals, concrete and wood), this contributed volume explains quantitative methods and testing for joint strength, as well as mechanics. The second part of the book focuses on adhesives as applied connecting and adhering composites in aerospace, aircraft, automotive, marine, civil engineering and biomedical applications.

978-1-60595-093-8, ©2015, 324 pages, 6x9, HC book, **\$155.00**

Online: eBook, **\$125.00**

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ADVANCED MATERIALS

2015

Metal Matrix Syntactic Foams

Processing, Microstructure, Properties and Applications

Edited by: Nikhil Gupta and Pradeep K. Rohatgi

Comprehensive technical treatment of the theory, mechanical engineering and applications of metal matrix syntactic foams. Part of the book covers processing and properties of metal foams based on the matrix metal. The second part compares syntactic foams of different materials based on density and strain rate. In addition, the text clarifies the design and application of syntactic foams in automotive and biomedical applications.

978-1-932078-83-1, ©2015, 370 pages, 6x9, HC book, **\$150.00**

Online: eBook, **\$110.00**

Response of Structures Under Extreme Loading

Fifth International Workshop on Performance, Protection & Strengthening of Structures under Extreme Loading, (PROTECT 2015), June 28-30, 2015

Edited by: Venkatesh Kodur and Nemkumar Banthia

The book investigates the performance of structures subject to shock, explosions, earthquakes and fire and presents methods for strengthening, repairing and retrofitting structures and offers detailed temperature, load and stress analysis of numerous engineered materials, including fiber-reinforced polymers and high-performance concrete. New information on protection design, structural health monitoring, sensors and fire-resistant materials is included.

978-1-60595-227-7, ©2015, 1,013 pages, 6x9, SC book, **\$175.00**

Online: eProceedings, **\$150.00**

Structural Health Monitoring 2015

An Automated Solution to Global Structural Integrity Management

Proceedings of the Tenth International Workshop, September 1-3, 2015, Stanford University

Edited by: Fu-Kuo Chang

This important series is available as a beautiful bound edition and in Internet downloadable format for research and technology development providing information on improved 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 aerospace, civil infrastructures, oil/gas energy sectors, medical applications, etc.

Print: 978-1-60595-275-8, ©2015, 3,220 pages, 6x9, 2 Vol/HC book, **\$225.00**

Online: eProceedings, **\$150.00** (individual articles for \$25.00 each)

Sustainable Composites

Fibers, Resins and Applications

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, ©2015, 562 pages, 6x9, HC book, **\$155.00**

Online: eBook, **\$115.00**

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ADVANCED MATERIALS

2014

Aeronautical Applications of Non-destructive Testing

Abbas Fahr

Presents a detailed assessment of non-destructive testing methods for materials and parts in aircraft. Describes a wide variety of NDT techniques and explains their application in the evaluation and inspection of aerospace materials and components ranging from the entire airframe to systems and subsystems. Offers guidance on the information derived from each NDT method and its relation to aircraft design, repair, maintenance and overall safety. The book covers basic principles, as well as practical details of instrumentation, procedures and operational results with a full discussion of each method's capabilities and limitations as these pertain to aircraft inspection and different types of materials, e.g., composites and metal alloys. A final section is devoted to NDT reliability.

978-1-60595-120-1, ©2014, 510 pages, 6x9, SC book, **\$160.00**

Online: eBook, **\$125.00**

American Society for Composites—Twenty-ninth Technical Conference

held jointly with 16th US-Japan Conference on Composite Materials and ASTM-D30 Meeting Proceedings, September 8-10, 2014, University of California San Diego, La Jolla, CA

Edited by: Hyonny Kim

A fully searchable CD contains unpublished research on multifunctional, active, biobased, structural health and self-healing composites for aircraft, bridges, concrete, armor, and wind energy. Synthetic, biobased, and nano composites with multiple matrices are discussed, along with new ways to model and manufacture composites. Also covers: electrical properties, damage/failure, micromechanics, environmental effects and impact.

978-1-60595-124-9, ©2014, CD-ROM in plastic jewel case, **\$125.00**

BALLISTICS 2014

28th International Symposium, September 22-26, 2014, Atlanta, GA USA

Edited by: Richard G. Ames and R. Daniel Boeka

Presents research results and the application to the various fields of ballistics relating to theories and concepts to the design, development, and evaluation of weapon systems and their performance against materiel such as armor and other potential targets. The papers are presented by world-class ballisticians from over 24 countries.

978-1-60595-149-2, ©2014, 1,789 pages, 2 Vols. w/CD, 6x9, HC book, **\$225.00**

Fundamentals of Fiber Science

Xiangwu Zhang

This volume provides the basic chemical and mathematical theory needed to understand and modify the connections among the structure, formation and properties of many different types of manmade and natural fibers. At a fundamental level it explains how polymeric and non-polymeric fibers are organized, how such fibers are formed and how primary and secondary properties, from basic flow to thermal and electrical qualities are derived from molecular and sub-molecular organization, thus establishing the quantitative and predictive relationships needed for fiber engineering.

978-1-60595-119-5, ©2014, 429 pages, 6x9, HC book, **\$119.50**

Online: eBook, **\$99.50**

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ADVANCED MATERIALS

2014

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, ©2014, 338 pages, 6x9, SC book, **\$75.00**

Online: eBook, **\$50.00**

Student price available

The Mechanics of Adhesives in Composite and Metal Joints

Finite Element Analysis with ANSYS

Magd Abdel Wahab

Introduces the mechanics and modeling of adhesive joints (lapped, cantilever beam, etc.) made from composites and metals. After reviewing basic mechanics applied to adhesive joining, the book demonstrates how the properties of such joints are determined using finite element analysis, specifically ANSYS. The book includes guidelines and original input files for modeling non-cracked, cracked and damaged joints, where stress, fatigue cracks, thermal and diffusion analyses must be carried out for more accurate design, lifetime prediction and repairs.

978-1-60595-096-9, ©2014, 226 pages, 6x9, HC book, **\$129.50**

Online: eBook, **\$95.00**

Waterborne Coatings Symposium 2014

Proceedings of the Forty-First Annual International Waterborne, High-Solids, and Powder Coatings Symposium

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

The book offers guidance to performance improvements by chemical modification of additives, dispersants, and cross-linkers, as well as new approaches using nanomaterials, graphene, and polymer brush chemistry. Attention is given to VOC reduction, enhanced hiding capacity, weatherability, dispersion and more.

978-1-60595-165-2, ©2014, 470 pages, 8.5x11, SC book, **\$124.50**

2013

American Society for Composites—Twenty-eighth Technical Conference

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

Edited by: Charles Bakis

978-1-60595-107-2, ©2013, CD-ROM in plastic jewel case, **\$125.00**

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.

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

Online: eBook, **\$95.00**

Student price available

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ADVANCED MATERIALS

2013

Asphalt Paving Technology 2013

Volume 82, Journal of the Association of Asphalt Paving Technologists

Edited by: Eugene L. Skok

Hardcover series volume addresses technical problems in the mixing, application and long-term behavior of different types of asphalt. Data is provided on asphalt modeling, as well as strategies for formulating and testing flexible asphalt. New advances in recycled and sustainable asphalt are discussed.

978-1-60595-145-4, ©2013, 750 pages, 6x9, HC book/CD, **\$200.00**

BALLISTICS 2013

OUT-OF-PRINT

Composite Materials in Piping Applications

Design, Analysis and Optimization of Subsea and Onshore Pipelines from FRP Materials

Dimitris G. Pavlou

A comprehensive 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. 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. Includes a CD-ROM that contains original computer algorithms in the Mathematica platform based on equations in the book.

978-1-60595-029-7, ©2013, 412 pages, 6x9, HC book/CD, **\$150.00**

Online: eBook, **\$125.00**

Composite Science and Technology

2020 Scientific and Industrial Challenges

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

Edited by: Michele Meo

Main topics include: 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.

Online: eProceedings, 978-1-60595-113-3, ©2013, **\$150.00** (individual articles for \$25.00)

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, ©2013, 464 pages, 6x9, HC book, **\$150.00**

Online: eBook, **\$120.00**

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

978-1-60595-116-4, ©2013, 319 pages, 6x9, SC book, **\$100.00**

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ADVANCED MATERIALS

2013

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.

978-1-60595-056-3, ©2013, 198 pages, 6x9, HC book, **\$125.00**

Online: eBook, **\$75.00**

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.

978-1-60595-014-3, ©2013, 458 pages, 6x9, HC book, **\$150.00**

Online: eBook, **\$115.00**

Nanocoatings: Principles and Practice

From Research to Production

Steven Abbott and Nigel Holmes

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: metaloxides, 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, ©2013, 343 pages, 6x9, HC book, **\$165.00**

Online: eBook, **\$144.50**

Student price available

Nonlinear Mechanics

Proceedings of the Sixth International Conference (ICNM-VI), August 12-15, 2013, Shanghai, China

Edited by: Zhe-wei Zhou

978-1-60595-109-6, ©2013, 637 pages, 6x9, SC book, **\$100.00**

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ADVANCED MATERIALS

DEStech Publications and the American Society for Composites are proud to present 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, ©2012, 306 pages, 6x9, SC book, **\$49.50**

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, ©2012, 240 pages, 6x9, SC book, **\$49.50**

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, ©2013, 234 pages, 6x9, SC book, **\$49.50**

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, ©2013, 282 pages, 6x9, SC book, **\$49.50**

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, ©2013, 304 pages, 6x9, SC book, **\$49.50**

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, ©2013, 288 pages, 6x9, SC book, **\$49.50**

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2012

Structural Health Monitoring 2013

OUT-OF-PRINT

A Roadmap to Intelligent Structures

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

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 I. Kiss and Lyne St-Georges

Part of the ITCC/ITES book series on thermal conductivity. Edited 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, ©2013, 326 pages, 6x9, HC book, **\$99.50**

The Waterborne Coatings Symposium

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

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

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.

978-1-60595-105-8, ©2013, 537 pages, 8.5 x11, SC book, **\$99.50**

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

978-1-60595-076-1, ©2012, CD-ROM in plastic jewel case, **\$125.00**

Asphalt Paving Technology 2012

Volume 81, Journal of the Association of Asphalt Paving Technologists

Edited by: Eugene L. Skok

Presents over 30 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, ©2012, 855 pages, 6x9, HC book/CD-ROM, **\$200.00**

Fatigue Behaviour of Fiber Reinforced Polymers

Experiments and Simulations

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

978-1-60595-091-4, ©2012, 291 pages, 8x10, HC book, **\$75.00**

Online: eBook, **\$65.00**

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ADVANCED MATERIALS

2012

Introduction to Nonwovens Technology

Engineering with Fibers Series

Subhash Batra and Behnam Pourdeyhi

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**

Online: eBook, **\$135.00**

Student price available

Nanomaterials in Concrete

Advances in Protection, Repair, and Upgrade

Henry E. Cardenas

978-1-60595-050-1, ©2012, 190 pages, 6x9, HC book, **\$100.00**

Online: eBook, **\$75.00**

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.

978-1-60595-013-6, ©2012, 310 pages, 6x9, HC book, **\$110.00**

Online: eBook, **\$75.00**

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. 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.

978-1-60595-016-7, ©2012, 401 pages, 6x9, HC book, **\$150.00**

Online: eBook, **\$115.00**

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ADVANCED MATERIALS

2012

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.

978-1-60595-043-3, ©2012, 274 pages, 6x9, HC book, **\$150.00**

Online: eBook, **\$135.00**

2011

Advances in Heterogeneous Material Mechanics (ICHMM-2011)

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

978-1-60595-054-9, ©2011, 1,204 pages, 6x9, SC book, **\$99.50**

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

978-1-60595-051-8, ©2011, CD-ROM in plastic jewel case, **\$125.00**

Asphalt Paving Technology 2011

Journal of the Association of Asphalt Paving Technologists

OUT-OF-PRINT

BALLISTICS 2011

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

Edited by: Ernest Baker and Doug Templeton

978-1-60595-052-5, ©2011, 2,226 pages, 2 vols. w/CD, 6x9, HC book, **\$174.50**

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, **\$150.00**

Online: eBook, **\$115.00**

Student price available

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

978-1-60595-053-2, ©2011, 2,704 pages, 2 vols. w/CD, 6x9, HC book, **\$175.00**

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ADVANCED MATERIALS

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, **\$125.00**

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

978-1-60595-028-0, ©2010, 466 pages, 6x9, SC book, **\$125.00**

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.

978-1-60595-000-6, ©2010, 490 pages, 6x9, HC book, **\$150.00**

Polymeric Solar Cells

Materials, Design, Manufacture

Edited by: Frederik Krebs

978-1-60595-017-4, ©2010, 243 pages, 6x9, HC book, **\$65.00**

Recent Advances in Textile Composites (TexComp 10)

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

Edited by: Christophe Binetruy and François Boussu

978-1-60595-026-6, ©2010, 578 pages, 6x9, SC book, **\$65.00**

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

978-1-60595-024-2, ©2010, 1,420 pages, 6x9, HC book/CD-ROM, **\$100.00**

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

978-1-60595-015-0, ©2010, 1,016 pages, 6x9, HC book, **\$125.00**

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, **\$125.00**

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ADVANCED MATERIALS

2009

Poromechanics IV

Proceedings, The Fourth Biot Conference on Poromechanics, June 8-10, 2009, Columbia Univ., NY

Edited by: Hoe Ling and Andrew Smyth

978-1-60595-006-8, ©2009, 1,179 pages, 6x9, HC book, **\$100.00**

Stress Analysis of Fiber-Reinforced Composite Materials

Updated Edition

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**

Online: eBook, **\$164.50**

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

Research on the safety monitoring of civil structures such as bridges, as well as ships and aircraft,

595-007-5, ©2009, 2,372 pages, 2 Vols./CD, 6x9, HC book, **\$125.00**

2008

Advances in Heterogeneous Material Mechanics (ICHMM-2008)

Edited by: Jinghong Fan and Haibo Chen

978-1-932078-80-0, ©2008, 1,755 pages, 6x9, SC book, **\$75.00**

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, **\$125.00**

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, **\$125.00**

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ADVANCED MATERIALS

2008

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, ©2008, 541 pages, 8.5x11, HC book, **\$125.00**

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.

978-1-932078-81-7, ©2008, 545 pages, 6x9, SC book, **\$75.00**

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, **\$100.00**

Thermal Conductivity 29/Thermal Expansion 17

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

Edited by: John R. Koenig and Heng Ban

978-1-932078-72-5, ©2008, 624 pages, 6x9, HC book, **\$110.00**

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, **\$125.00**

Introduction to Nanocomposite Materials

Properties, Processing, Characterization

OUT-OF-PRINT

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

978-1-932078-71-8, ©2007, 2,154 pages, 2 Vols./CD, 6x9, HC book, **\$150.00**

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, **\$125.00**

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ADVANCED MATERIALS

2006

Design, Manufacturing and Applications of Composites

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Proceedings of the Sixth Joint Canada-Japan Workshop on Composites

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, **\$75.00**

Thermal Conductivity 28/Thermal Expansion 16

OUT-OF-PRINT

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, **\$50.00**

2005

American Society For Composites

OUT-OF-PRINT

Twentieth Technical Conference

BALLISTICS 2005

OUT-OF-PRINT

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

978-1-932078-19-0, ©2005, 985 pages, 6x9, SC book, **\$50.00**

Structural Control

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

Edited by: Andrew Smyth and Raimondo Betti

978-1-932078-45-9, ©2005, 326 pages, 6x9, HC book, **\$50.00**

Structural Health Monitoring 2005

OUT-OF-PRINT

2004

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, **\$100.00**

Design, Manufacturing and Applications of Composites

OUT-OF-PRINT

Proceedings of the Fifth Joint Canada-Japan Workshop on Composites

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ADVANCED MATERIALS

2004

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, **\$125.00**

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

978-1-932078-35-0, ©2004, 211 pages, 6x9, HC book, **\$29.50**

Structural Health Monitoring 2004

Proceedings of the Second European Workshop

OUT-OF-PRINT

Thermal Conductivity 27/Thermal Expansion 15

Proceedings of the 27th International Thermal Conductivity Conference and the

15th International Thermal Expansion Symposium, October 26-29, 2003, Knoxville, TN

Edited by: Hsin Wang and Wally Porter

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

Thermal Conductivity 26/Thermal Expansion 14

Proceedings of the 26th International Thermal Conductivity Conference and the

14th International Thermal Expansion Symposium, August 6-8, 2001, Cambridge, MA

Edited by: Ralph Dinwiddie

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

2003/2002/2001

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, **\$100.00**

BALLISTICS 2002

OUT-OF-PRINT

Structural Health Monitoring 2002

Proceedings of the First European Workshop

OUT-OF-PRINT

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, **\$35.00**

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EDUCATION

2016

Action Now

Transforming Schools Through Community

Rebecca Wheat

This practical volume focuses on techniques for contacting and involving community members in public schools. Based on interviews with working school administrators in the San Francisco Bay area, the text presents ideas for forging networks and enlisting/retaining neighborhood leaders and families for school improvement initiatives.

978-1-60595-232-1, ©2016, 72 pages, 6x9, SC book, **\$22.50**

2015

Preparing for and Passing the School Superintendent Test of Texas

2nd Edition

Pauline Sampson

A revision of a popular handbook designed to assist professionals in preparing for the state of Texas' school superintendency exam. The book lists all the standards examinees are expected to know, explains what the standards mean and locates them in terms of sample exam questions and answers. This edition includes updated standards and improved sample questions.

978-1-60595-216-1, ©2015, 160 pages, 6x9, SC book, **\$58.50**

Online: eBook, **\$40.00**

2014

Special Programs and Services in Schools

Creating Options, Meeting Needs

Revised, 2nd Edition

Bonnie Beyer and Eileen S. Johnson

This is an updated and revised version of the original (2005) volume that organized and explained virtually all federally mandated programs administered in public education in the United States. It explains the goals and requirements of dozens of programs and clarifies government regulations affecting students as well as citizens who come in contact with schools, e.g., disabled individuals, job-seekers, employees, non-English-speaking parents and many other groups. The detailed information in this book is needed for understanding government mandates, accessing the right agencies, reducing discrimination, and avoiding legal entanglements. The book is used extensively in university courses for school administration.

978-1-60595-175-1, ©2014, 225 pages, 7x10, SC book, **\$48.50**

Online: eBook, **\$42.50**

2013

Costs of Education

Revenue and Spending in Public, Private and Charter Schools

Betty Cox, Spencer Weiler and Luke Cornelius

Based on extensive research and actual school budgets, this volume is a systematic exposition of how money is collected and spent in the thousands of U.S. public school districts, as well as in parochial, private and charter schools. The book explains the decisions and paper trail of how funds are allocated in planning, justified in outlays, and accounted for, especially with regard to educational goals.

978-1885432-54-4, ©2013, 236 pages, 6x9, SC book, **\$46.50**

Online: eBook, **\$41.00**

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EDUCATION

2013

School Maintenance and Renovation

Administrator Policies, Practices, & Economics

2nd, Expanded Edition

Glen I. Earthman and Linda K. Lemasters

Revised professional text covers technical details needed to build, maintain and upgrade school facilities, with special attention to student achievement and the budget. Information on financial calculations, procurement, staffing, outsourcing, legal and regulatory aspects and operations is included. The new edition offers guidance on alternative funding and cost-saving strategies, state and federal regulations, and trends in green building and LEED certification.

978-1885432-53-7, ©2013, 255 pages, 6x9, SC book, **\$46.50**

Online: eBook, **\$40.00**

2011

Shadow Children

Understanding Education's #1 Problem

Second Edition

Anthony S. Dallmann-Jones

Provides an in-depth, research based examination of the at-risk problem and population by a leading authority. Included is a section of 5 chapters that provides guidance in prevention and intervention programs. The new edition is the primary text for Learner's Edge popular distance learning course "The Courage to Care: Working with At-Risk Students".

978-0-9787610-3-5, ©2011, 233 pages, 6x9, SC book, **\$34.50**

2009

Catholic School Administration

Theory, Practice, Leadership

2nd Edition, Revised and Expanded

Robert H. Palestini

This second edition of the highly influential text, Catholic School Administration, has been greatly enlarged and improved with new chapters on curriculum improvement, supervision of instruction, ways to assess testing—as well as new information on marketing, human resources, and student recruitment. Based on principles drawn from Ignatius to Vatican II, as well as concepts from current educational and social theorists, the book combines the best ideas for leading and decision-making with detailed practical presentations of the managerial tasks that must be mastered to run a parochial school. Case studies and surveys provide extra guidance. For readers seeking to make organizational and instructional improvements, this text offers proven techniques for systematic change. It is an outstanding resource for introducing administrators to the challenges of running a Catholic school.

1-885432-44-5, ©2009, 346 pages, 6x9, SC book, **\$38.00**

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ENVIRONMENTAL TECHNOLOGY

2020

Construction Site Soil Erosion and Sediment Controls

Planning, Design, and Performance

Second Edition

Robert Pitt, Shirley Clark and Donald Lake

This is a new edition of a widely used textbook on construction site erosion, first published in 2007. The new edition has been fully updated in terms of both technology, e.g., expanded discussions of chemical treatment and legal regulations governing site controls. The book now includes extensive data on the performance of erosion control strategies, along with a fuller discussion of both U.S. and international technical methods and standards. In addition, the revised volume contains more problems and projects for engineering students.

978-1-60595-599-5, ©2020, 462 pages, 8.5x11, SC book, **\$154.50**

Online: eBook, **\$125.00**

Wastewater Treatment Plant Operations Made Easy

A Practical Guide for Licensure

Revised Edition

Frank Spellman and Joanne Drinan

Updated format and edited for clarity with questions and quizzes designed for exam preparation. This book gives plant operators and students of wastewater 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. Sample questions and problems in the text have been selected to prepare for operator examinations.

978-1-60595-622-0, ©2020, 244 pages, 6x9, SC book, **\$44.50**

Online: eBook, **\$37.50**

2019

Activated Sludge Wastewater Treatment

Process Control & Optimization for the Operations Professional

Eric J. Wahlberg

The book presents a scientific explanation of all unit operations in the activated sludge process and uses data to demonstrate the effectiveness of original process engineering techniques for modifying the sludge process and correcting problems in it. Provides methods for more efficient sludge treatment and predictable operating conditions by including mathematical explanations of operations based on instructional modules, as well as state point analysis. Investigates problems in aeration, settling, nitrification, denitrification, anaerobic digestion, and secondary clarification.

978-1-60595-333-5, ©2019, 538 pages, 6x9, HC book, **\$149.50**

Online: eBook, **\$95.00**

Student Price Available

Land Treatment of Municipal Wastewater

Frank R. Spellman

The book explains how land treatment works, particularly slow-rate land treatment, and then investigates technical improvements, including phytoremediation; vadose-zone monitoring; new types of surface irrigation; recharge and land subsidence strategies. Provides information on soil and aquifer management and develops a rational model for balancing oxygen uptake with BOD loadings. A special feature is demonstrating the use of land application to treat industrial wastewater, with an emphasis on food processing influents. Book analyses risks to the environment of land methods compared to those posed by other wastewater treatment methods.

978-1-60595-538-4, ©2019, 336 pages, 6x9, SC book, **\$94.50**

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ENVIRONMENTAL TECHNOLOGY

2019

Wastewater Odor Production and Control

An Operator's Guide

Michael Gerardi and Jon Gerardi

A comprehensive guide to the causes and control of odors in wastewater plants, lagoons, and biosolids (sludge) handling facilities, the book spells out the chemical and microbiological conditions in wastewater unit operations that produce foul smells and potential health hazards for workers. The book provides information on how to monitor odors and then explains techniques for preventing odors before they occur. Essential information is given on chemical, filtering and scrubbing methods for controlling mephitic compounds. The book also offers management strategies for addressing public complaints about odors associated with wastewater treatment.

978-1-60595-064-8, ©2019, 160 pages, 6x9, SC book, **\$124.50**

Water Treatment Operations Made Easy

A Practical Guide for Licensure

Frank R. Spellman and J. Price-Bayer

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

978-1-60595-509-4, ©2019, 472 pages, 6x9, SC book, **\$49.50**

Online: eBook, **\$37.50**

2018

Chemical Composition and Biological Activity of Environmental Waters

Characterization Methods

Paul Bradley et al., *US Geological Survey*

The U.S. Geological Survey, in cooperation with the U.S. Environmental Protection Agency, conducted a study in which samples were collected from 38 streams in 25 States to provide an overview of chemical contaminants found in stream water across the Nation.

978-1-60595-533-9, ©2018, 116 pages, 8.5x11, SC book, **\$79.50**

2016

The Science of Wastewater

Frank R. Spellman

The scientific properties of wastewater and the unit processes used to transform it into effluent of sufficient quality to be discharged into the environment are explained in this reference, which presents step-by-step descriptions of, and mathematical tools for, wastewater treatment from filtering and activated sludge to detention basins, ponds and lagoons to the stabilization and composting of biosolids. Chapters cover the math, hydraulics, chemistry, electrical conductivity of wastewater and its constituents, as well as methods and calculations used in sedimentation, biological contractors, chemical dosing, lab analysis and more, with hundreds of operations-based problems and solutions.

978-1-60595-250-5, ©2016, 508 pages, 6x9, HC book, **\$129.50**

Online: eBook, **\$95.00**

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ENVIRONMENTAL TECHNOLOGY

2016

Wastewater Bioaugmentation and Biostimulation

Michael Gerardi

A guide to understanding and enhancing existing microbial populations in biological wastewater treatment for municipal and industrial waste streams, the book addresses operational problems arising from deficiencies in biomass and presents ways wastewater processes can be improved. The text explains the groups of microbes used in bioaugmentation and the nutrients, enzymes and growth factors needed to solve processing problems and achieve operational goals, e.g., the conversion of starches such as cellulose. The text also reviews the degradation of substrates and the roles performed by specific microbes.

978-1-932078-78-7, ©2016, 147 pages, 6x9, HC book, **\$124.50**

Online: eBook, **\$99.50**

2015

Life Cycle Analysis of Nanoparticles

Risk, Assessment and Sustainability

Edited by: Ashok Vaseashta

This book discusses how lifecycle assessment (LCA) concepts are applied to analyze the fate of nanoparticles and nanomaterials in a variety of environmental and manufacturing settings. Starting by locating LCA and LCA modeling in the context of overall risk assessment, the text presents sensor methods to detect and monitor nanoparticles and to characterize their risks. Subsequent chapters focus on the potential for the design of sustainable nanomaterials. Chapter topics include: risk mitigation in water, toxicology, biosensors, and membranes.

978-1-60595-023-5, ©2015, 404 pages, 6x9, HC book, **\$139.50**

Online: eBook, **\$120.00**

2014

Activated Sludge Technologies for Treating Industrial Wastewaters

Design and Troubleshooting

Joseph G. 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, ©2014, 234 pages, 6x9, SC book, **\$89.50**

Personal Care Products and Pharmaceuticals in Wastewater and the Environment

Frank R. Spellman

This volume analyzes current knowledge regarding the effects of endocrine disruptors and pharmaceuticals and personal care products in drinking water distribution systems. The book focuses on physiological effects in humans and animals of perchlorates, plasticizers, such as phthalates, bisphenol-A, and steroids that may be ingested in water. It evaluates technologies for detection and analysis, particularly with a view to EPA and other regulatory guidelines.

978-1-60595-123-2, ©2014, 244 pages, 6x9, SC book, **\$44.50**

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ENVIRONMENTAL TECHNOLOGY

2013

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, ©2013, 323 pages, 6x9, SC book, **\$44.50**

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**

Online: eBook, **\$125.00**

Student price available

2006/2004/2003

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**

Online: eBook, **\$42.50**

Student price available

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

Edited by: R. Field, A. N. Tafuri, S. Muthukrishnan, B. A. Acquistio 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. Provides valuable data on the removal efficiencies, costs, and design parameters of all main runoff control structures.

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

Pulp & Paper Mill Effluent Environmental Fate & Effects

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

978-1-932078-37-4, ©2004, 608 pages, 7x10, HC book/CD, **\$99.50**

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ENVIRONMENTAL TECHNOLOGY

2006/2004/2003

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**

Industrial Wastewater and Best Available Treatment Technologies

Edited by: Alan Bowers and W. Wesley Eckenfelder

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

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FOOD SCIENCE

2021

Ancient Grains in Modern Soils

Edited by: Raymond Cooper

This comprehensive volume has been written by international experts on the cultivation, properties, and use of ancient grains, pseudo-grains, and rice in modern agriculture and consumption. 16 chapters focus on unique properties including genetics and hybrids, phytochemicals, and implications for milling and baking.

978-1-60595-559-1, July 2021, 392 pages, 6x9, HC book, **\$189.50**

Online: eBook, **\$140.00**

Food Forensics Handbook

Practice, Instrumentation, Case Studies

Var L. de St. Jeor

Based on the analysis of actual samples sent by agricultural and food producers, this volume is a technical introduction to the investigative methods and technical apparatus for analyzing foods containing contaminants or defects caused by chemical or microstructural irregularities. The book shows how a food forensics lab is set up and provides protocols for sample preparation, with special attention to light microscopy, X-ray devices, and elemental analysis. The book supplies numerous images and data sets to aid in formulating and solving problems of identifying defects in food products, such as off-flavors, improper texture, faulty ingredients, and inclusion of foreign bodies. Topics include: dyes and staining; SEM; X-ray tomography; spectroscopy; fluorescence; molecular and chemical analysis and more. This handbook is essential for anyone tasked with analyzing foods for safety, quality, or product design.

978-1-60595-331-1, May 2021, 588 pages, 6x9, HC book, **\$175.00**

Online: eBook, **\$125.00**

2019

Advances in Science & Engineering of Rice

Edited by: Zhongli Pan and Ragab Khir

A systematic overview of the growth, uses and technical improvement of all elements of rice. Covers each stage of production, from pre-harvest to storage, role in food products and nutrition. The volume gives information on how genetic engineering and other technologies enhance the qualities of rice as a crop, as well as the nutritional properties of rice as a food. Chapters reveal how to apply advanced engineering and handling to lessen environmentally harmful chemical residues and costs while maintaining high levels of food quality and safety.

978-1-60595-191-1, ©2019, 690 pages, 6x9, HC book, **\$169.50**

Online: eBook, **\$115.00**

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FOOD SCIENCE

2018

Methods for Developing New Food Products

An Instructional Guide

Expanded Second Edition

Fadi Aramouni and Kathryn Deschenes

The book explains the steps to develop a new, safe and legally permitted food product from original idea to the marketed item. Important for any food specialist planning to introduce a new food item, this volume explains organizational, technical, legal and cost factors that must be taken into account before a new food can be produced and sold. The second edition has been updated in terms of the Food Safety Modernization Act and adds a chapter on pet food. New for this edition are sections on innovation software, emerging food pathogens, a Food Safety Plan, FDA information on labeling and additives, as well as Certificates of Analysis and Letters of Guarantee.

978-1-60595-432-5, ©2018, 430 pages, 6x9, HC book, **\$144.50**

Online eBook: 978-1-60595-433-2, **\$95.00**

Student Price Available

2017

Molecular Methods for Detection and Characterization of Food and Environmental Pathogens

Suresh Pillai

Textbook explains the principles and applications of molecular/genetic techniques that are widely used in food, environmental, public health and safety and other fields to identify dangerous microbes. After a basic introduction to detection methods, the book's chapters clarify the fundamental concepts underlying current molecular methods. Each method is elaborated step-by-step using examples and cases intended to help select the appropriate molecular method for sampling, identifying and tracing specific pathogens. All methods discussed are accompanied by detailed lab protocols that demonstrate how specific techniques and equipment (e.g., PCR, lab-on-a-chip etc.) are applied in realistic situations. The book also presents quantitative risk assessment and its connection to molecular methods.

978-1-60595-079-2, ©2017, 168 pages, 6x9, HC book, **\$129.50**

Online: eBook, **\$94.50**

Student price available

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

Second, Revised Edition

Edited by: Stanley P. Cauvain

An updated and expanded version of the industry-standard handbook developed with the International Association for Cereal Science and Technology (ICC), this enlarged reference explains technical standards and test methods applied through the grain chain for many types of cereals and the products made from them, e.g., baked goods and animal feeds. The new edition adds and explains novel tests, testing data, international requirements, operational procedures and equipment that have come into use since the first edition was published in 2009. Techniques in this book pertain to cereal chemistry, analysis, quality control and safety.

978-1-60595-104-1, ©2017, 520 pages, 6x9, HC book, **\$179.50**

Online: eBook, **\$144.50**

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FOOD SCIENCE

2017

The Use of Nanomaterials in Food Contact Materials

Design, Application, Safety

Rob Veraart

Analyzes the uses and risks of nanomaterials in food preparation, on surfaces, and within packaging. The book explains how nanomaterials are applied in many phases of food production, including packaging materials, inks, coatings and nano-silver antimicrobials. Shows how nanoparticles are monitored and characterized. In this context, the book reviews the evidence for migration of nanoparticles and assesses risks of exposure. A primary feature of this text is the presentation of national laws and standards from Europe, Asia, South and North America that regulate the use of food-related nanomaterials.

978-1-60595-136-2, ©2017, 394 pages, 6x9, HC book, **\$145.00**

Online: eBook, **\$110.00**

Functional Foods, Nutraceuticals and Natural Products

Concepts and Applications

Edited by: Raj Vattem and Vatsala Maitin

Volume examines the evolution and analysis of functional foods in the prevention and therapeutic management of chronic and infectious human pathologies. It discusses the sources and constitutive active ingredients and expands the current understanding of the metabolic, physiological and genomic effects of functional food ingredients. It provides insights into relevance of functional foods in complementing pharmaceutical and other strategies for human health and wellness and explores the translation of scientific breakthroughs into commercial functional food products.

978-1-60595-101-0, ©2016, 820 pages, 6x9, HC book, **\$179.50**

Online: eBook, **\$125.00**

Student price available

2016

Peanuts: Bioactives & Allergens

Edited by: N. Alice Lee, Rao Rachaputi and Graeme Wright

With the peanut representing an ever-increasing component of the global diet, the current book presents a scientific analysis of the two main and dichotomous properties of peanuts: allergenicity and health. The volume provides a technical explanation of the bioactive nutrients and dietary benefits of the peanut. It also reviews and analyzes the evidence implicating peanuts as a major food allergen. Moving beyond science to technology and engineering, the book demonstrates how genetic, pre-harvest, post-harvest and processing technologies are deployed that can increase the nutraceutical value of peanuts and mitigate their risks.

978-1-60595-036-5, ©2016, 382 pages, 6x9, HC book, **\$148.50**

Online: eBook, **\$120.00**

The Human Microbiome Handbook

Edited by: Jason Tetro and Emma Allen-Vercoe

Written by a team of leading scientists, this text is designed as a technical introduction to microbiome research and its ramifications for human health and medicine. The first section focuses on the microbiome in general and its ecology, with contributions from pioneers in the field such as Sydney Finegold. Part two concentrates on the interactions between microbial populations and physiology, metabolism and immunology. The final section of the book is devoted to investigating the effects of the microbiome on chronic and autoimmune diseases. Genetics and the microbiome are discussed, as are clinical therapies for modifying the microbiome.

978-1-60595-159-1, ©2016, 382 pages, 6x9, HC book, **\$142.50**

Online: eBook, **\$110.00**

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FOOD SCIENCE

2015

Post-Harvest Technologies of Fruits and Vegetables

Hosahalli S. 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, ©2015, 325 pages, 6x9, HC book, **\$154.50**

Online: eBook, **\$115.00**

Student Price Available

2014

Functionalizing Carbohydrates for Food Applications

Texturizing and Bioactive/Flavor Delivery Systems

Edited by: Milda E. 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, ©2014, 426 pages, 6x9, HC book, **\$140.00**

Online: eBook, **\$105.00**

Minerals in Food

Nutrition, Metabolism, Bioactivity

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, ©2014, 378 pages, 6x9, HC book, **\$155.00**

Online: eBook, **\$115.00**

Student Price Available

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, ©2013, 430 pages, 6x9, SC book, **\$115.00**

Online: eBook, **\$80.00**

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FOOD SCIENCE

2013

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.

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

Online: eBook, **\$95.00**

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**

Online: eBook, **\$150.00**

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.

978-1-60595-049-5, ©2012, 489 pages, 6x9, HC book, **\$150.00**

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, **\$150.00**

Online: eBook, **\$115.00**

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FOOD SCIENCE

2012

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.

978-1-60595-047-1, ©2012, 643 pages, 6x9, HC book, **\$135.00**

Online: eBook, **\$90.00**

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, **\$125.00**

Online: eBook, **\$100.00**

2008/2006/2004

Food Drying Science and Technology

Microbiology, Chemistry, Applications

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

Online: eBook, **\$145.00**

Seafood Quality & Safety

Advances in the New Millennium

Edited by: Fereidoon Shahidi and Benjamin K. Simpson

0-9683220-2-6, ©2004, 391 pages, 6x9, HC book, **\$50.00**

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**

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MACHINERY / MFR. ENGINEERING

2021

Web Handling Handbook

Dilwyn Jones, David Roisum and Tim Walker

An engineering handbook that explains all technical aspects of webs, long thin sheets of materials, such as paper, plastic films, foils, and textiles that are wound into rolls, often after being laminated, printed, or coated. Topics covered include: tension control, roller mechanics, drives, brakes, nip control, guides, spreaders, slitters, and more. The book illustrates engineering principles with shop-floor examples and provides easy-to-understand calculations that control how web systems are designed and operated, and how webs of many different materials can be made to move efficiently over a variety of rollers. These tools are meant to help industry specialists troubleshoot and correct defects such as wrinkles, bagginess, curl, and misshapen wound rolls. As part of web handling the book provides extensive details on many roll-to-roll converting operations, such as calendaring, coating, laminating, and printing.

978-1-60595-598-8, ©2021, 684 pages, 6x9, HC book, **\$239.50**

Online: eBook, **\$199.00**

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, 176 pages, 8.5x11, HC book, **\$184.50**

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

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**

Online: eBook, **\$175.00**

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NURSING / HEALTHCARE

2021

Applied Statistical Analysis for Social and Health Sciences

James Schreiber

Written from an approach of understanding statistical analyses from the research question posed and the perspective of the research design, this book presents the fundamental concepts of statistical analysis. The content covers descriptive and univariate statistics, Bayes Theorem, non-parametric approaches, as well as unique coverage on ethics and analysis. This textbook is appropriate for graduate level courses addressing statistics for social and health sciences.

978-1-60595-567-4, December 2021, 200 pages, 6x9, SC book, **\$69.50**

Online: eBook, **\$55.00**

Clinical Decision-Making and Judicial Reasoning

Larry Brenner and Mara Williams

A guide for healthcare providers to prudent decision-making that ensures the safety of patients and protects providers from liability. The book is written in a concise, highly accessible, and methodical way for both students and practitioners. Examples and cases are provided throughout for classroom discussions and personal reflection. This is a key reference for physicians, medical students, advanced practice nurses, and law students in tort law programs.

978-1-60595-137-9, May 2021, 198 pages, 6x9, SC book, **\$79.50**

Online: eBook, **\$60.00**

Emotionally Intelligent Patient Care

Therapeutic Use of Self

Jean Johnson and Eileen T. O'Grady

This book presents a model for healthcare providers to enhance their skills in patient and colleague interaction while providing care. The focus of this reference is to provide ways to improve health-related interaction by envisioning oneself as a therapeutic tool. Patient ratings of provider interactions increasingly affect setting finances, morale, and award statuses such as "Magnet". Compassion fatigue and burn-out lead to lower quality care and employee attrition. This book presents a useful and practical model to provide students, healthcare leaders, and healthcare providers with a clear path to improving care.

978-1-60595-574-2, December 2021, 200 pages, 6x9, SC book, **\$79.50**

Online: eBook, **\$60.00**

Healthcare Finance and Financial Management

Essentials for Advanced Practice Nurses and Interdisciplinary Care Teams, Second Edition

Mary Paterson

This textbook is intended for students preparing as advanced practice clinicians. It is organized in two main parts. The first focuses on macro issues in healthcare finance and policy issues. The second concentrates on healthcare financing management and new to the second edition, includes coverage of the role of the consumer as a payer and as a participant in ambulatory care. Case studies included with each section have been updated in the new edition. 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.

978-1-60595-627-5, August 2021, 300 pages, 6x9, SC book, **\$89.95**

Online: eBook, **\$59.95**

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NURSING / HEALTHCARE

2021

Protecting Patients, Improving Care *Advancing Healthcare Quality and Safety*

L. Gregory Pawlson and Jean Johnson

An up to date course textbook that addresses the core concepts of quality and safety in healthcare. Co-authored by two experts, the text is written in one voice providing continuity among chapters. Quality and safety are presented using scientific principles which allow for a methodology resulting in evidence-based measurement of outcomes. Examples and cases are provided throughout to illustrate key concepts and provide classroom or online discussion. Ideal for graduate courses in nursing, physician assistance programs, and other healthcare personnel training.

978-1-60595-575-9, October 2021, 270 pages, 6x9, HC book, **\$109.50**

Online: eBook, **\$90.00**

Rural Nursing

Barriers and Benefits for RNs and APNs

Edited by: Laurie Anne Ferguson and Kenneth Lowrance

Contributed to by topic experts, this textbook focuses on the practical issues and challenges faced by nurses working with rural populations. Additionally, the text provides background information on chapter topics such as the aging rural population, mental health, substance abuse, rural veterans, telehealth, interprofessional education, and introduces evidence-based strategies to facilitate quality care. Ideal for academic programs seeking to include rural health in the curriculum and for nurses in rural settings.

978-1-60595-157-7, October 2021, 350 pages, 6x9, HC book, **\$109.50**

Online: eBook, **\$90.00**

Statistics and Research Design for the DNP Project

Christi Doherty and Kris Skalsky

This concise and practical textbook provides guidance on statistical analysis, specific to the needs of the DNP student, to assist in analyzing data for the results of the final DNP project and to provide a framework for future scholarly pursuits. Instruction is tied directly to the DNP Essentials as outlined by the AACN. Examples introduced in the opening chapters are threaded through each of the chapters to provide continuity as concepts are explained.

978-1-60595-384-7, January 2021, 230 pages, 6x9, SC book, **\$79.50**

Online: eBook, **\$60.00**

The Successful Completion of Your DNP Project

Edited by: Mary Bemker, Christine Ralyea, and Barb Schreiner

The DNP degree supports the nurse's ability to take evidence-based practice from the review of the literature and apply it in practice to advance care delivery, healthcare systems, nursing education, policy development or nursing practice. The DNP project reflects the culmination of this degree and this book will guide the DNP student from the choice of a topical project to the final presentation. Guidance is provided on general but critical topics such as working with your professor and choosing a mentor. 12 successful project exemplars are included by recent DNP graduates in leadership, education, and clinical and policy development. Strategies are offered on how to overcome barriers with a review of the literature, narrowing the topic, getting through the institutional review board, data analysis, developing and working from an outline for a project, and dissemination of findings.

978-1-60595-569-8, May 2021, 382 pages, 6x9, SC book, **\$89.50**

Online: eBook, **\$75.00**

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NURSING / HEALTHCARE

2021

Write! A Guide to Writing for Nurses

Joyce E. Johnson and Kevin Rulo

A concise and approachable guide that provides the skills and knowledge necessary for nurse leaders and nursing graduate students to successfully and persuasively convey written content with clarity and technical proficiency. Readers will be able to develop and complete written course assignments, major course papers, DNP projects, PhD dissertations, and Masters' Capstone projects. Chapter content addresses project planning as well as specific tools for mastering grammar and for enhancing writing skills quickly. Ideal for all nurse leaders and graduate nursing students working on course assignments and projects.

978-1-60595-510-0, ©2021, 160 pages, 6x9, SC book, **\$69.50**

Online: eBook, **\$55.00**

2020

Ethical and Legal Issues for Doctoral Nursing Students

A Textbook for Students and Reference for Nurse Leaders

Second Edition

Edited by: Anne Griswold Peirce and Jennifer A. Smith

Designed for ethics courses in nursing PhD and DNP programs, this new edition presents revisions and updates in each chapter. This book fills the need for an expanded view of required ethics content in the nursing curriculum. 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. Case studies provide real-world examples and facilitate classroom discussion.

978-1-60595-596-4, ©2020, 386 pages, 6x9, SC book, **\$69.50**

Online: eBook, **\$59.50**

The Successful Nurse Faculty Member

Tools of the Trade

Edited by: Denise Korniewicz

Awarded 1st Place in the 2020 AJN Book of the Year in "Nursing Management and Leadership"

A guide designed for novice faculty members and nursing education students who are teaching or will be teaching in higher education, this book provides the skills necessary to teach courses for classroom and online courses. Information is provided in a practical and accessible way and includes best practices for setting up a syllabus and curriculum, test item writing, grading, mentoring students, and personal advancement as a faculty member. The book furnishes exercises, rubrics, and self-test items to give readers hands-on practice in defining and carrying out an effective instructional agenda.

978-1-60595-630-5, ©2020, 290 pages, 6x9, SC book, **\$69.50**

Online: eBook, **\$55.00**

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NURSING / HEALTHCARE

2019

The DNP Nurse in Executive Leadership Roles

Edited by: Joyce E. Johnson and Linda L. Costa

Awarded 2nd Place in the 2019 AJN Book of the Year in "Nursing Management and Leadership"

This textbook presents and describes the knowledge and skills necessary for novice and experienced DNP nurses to advance and lead in C-suite, or chief officer, positions. Techniques provided in the book are directly linked to the core DNP Essentials and competencies. The book focuses on business-oriented skill sets and performance expectations required of upper-level executives. Examples include data and financial analysis, quality control, methods for transforming organizations, and business planning. Faculty and students in nurse leadership courses and DNPs exploring C-suite roles will find the book an extremely valuable resource.

978-1-60595-492-9, ©2019, 394 pages, 6x9, HC book, **\$109.50**

Online: eBook, **\$90.00**

Student price available

2018

Population Health and Its Integration into Advanced Nursing Practice

Edited by: Mary Bemker and Christine Ralyea

Awarded 1st Place in the 2018 AJN Book of the Year in "Advanced Practice Nursing"

This textbook provides essential population concepts in a comprehensive way to advanced practice students and practitioners in population and public health. Focus is placed on the supports and practices used in the advanced practice role with chapters contributed by nationally known experts on their respective topics. Addresses key issues and populations including the elderly, the chronically ill, substance abusers, and the military.

978-1-60595-392-2, ©2018, 528 pages, 6x9, HC Book, **\$124.50**

Online: eBook, **\$89.00**

Student Price Available

2017

The Case Manager's Survival Guide

Winning Strategies in the New Healthcare Environment, 3rd Edition

Toni Cesta and Hussein Tahan

The 3rd edition of this highly successful and widely used book provides vital information case managers and administrators of case management programs need to be successful. This new edition incorporates the impact of the Patient Protection and Affordable Care Act, Value-Based Purchasing measures, case management practices across the continuum, care coordination, transitional planning, and case management software and other technology applications. A useful resource for working in the changing healthcare environment, it addresses case managers in all settings and from diverse professional backgrounds. This edition places special emphasis on nurse case managers and their role in providing case management services, coordinating resources, cost containment, and optimizing the patient experience. Focusing on the practical aspects of case management, it discusses the operations of case management programs based on the authors' first hand experiences.

978-1-60595-288-8, ©2017, 534 pages, 8.5x11, SC book, **\$94.50**

Online: eBook, **\$74.50**

Student price available

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NURSING / HEALTHCARE

2016

Electronic Health Records for Quality Nursing & Health Care

Tiffany Kelley

This comprehensive reference provides foundational knowledge on electronic health records (EHRs) for the delivery of quality nursing care. Chapters cover descriptions of EHR components and functions, federal regulations within the HITECH Act, privacy and security considerations, interfaces and interoperability, design, building, testing, implementation, maintenance and evaluating outcomes. Key reference for nurse executives, nurse directors, nurse managers, advance practice nurses, nurse researchers, nurse educators, and nurse informaticists.

978-1-60595-071-6, ©2016, 496 pages, 6x9, SC book, **\$79.50**

Online: eBook, **\$60.00**

Genomic Essentials for Graduate Level Nurses

Edited by: Diane Seibert, Quannetta Edwards, Ann Maradiegue and Susan Tinley

Designed as both a nursing reference and course text, this book presents genetics and genomic essentials specifically for graduate-level nurses. Preliminary chapters cover the basics of genetics, risk assessment and genetic testing. With chapter contributions by topic experts, the remainder of the book is organized by disease system and covers genetics and genomics in prenatal care, neurology, cancer, respiratory function, cardiology, pharmacogenomics, hematology and others. Key chapters on ethical and legal issues and future technology are also included.

Print: 978-1-60595-094-5, ©2016, 460 pages, 7x10, SC book, **\$99.95**

Online: eBook, 928-1-60595-095-2, **\$79.95**

The DNP Degree & Capstone Project

A Practical Guide

Edited by: Mary Bemker and Barb Schreiner

This textbook focuses on enhancing understanding, and characterizing the Doctor of Nursing Practice degree, and its place in the current healthcare environment. The book offers guidelines for planning and conducting all phases of a DNP capstone project. Examples of successful projects from varied areas of nursing practice are included along with practical tips for publicizing capstone project results to the wider medical community.

978-1-60595-259-8, ©2016, 198 pages, 6x9, SC book, **\$69.95**

Online: eBook, **\$49.95**

2015

Nursing Leadership and Management

The Advanced Practice Role

Edited by: Denise M. Korniewicz

This textbook is intended for students preparing as advanced practice nurses, doctoral physical therapists, doctoral pharmacists, and other advanced practice professionals. The book provides a practical approach to the application of leadership and management principles while systematically presenting the content needed for skilled leadership specific to clinical settings. A case study is incorporated into the theoretical material of each chapter as a continuing illustration. Key themes such as quality and safe patient care, transforming clinical practice, and critical thinking principles to improve patient outcomes form key chapters of the book.

978-1-60595-158-4, ©2015, 209 pages, 6x9, SC book, **\$69.95**

Online: eBook, **\$49.95**

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NURSING / HEALTHCARE

2014

Healthcare Finance and Financial Management

Essentials for Advanced Practice Nurses and Interdisciplinary Care Teams

Mary Paterson

This textbook is intended for students preparing as advanced practice clinicians. 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. 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, ©2014, 220 pages, 6x9, SC book, **\$69.95**

Online: eBook, **\$49.95**

Infection Control for 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. A case study is incorporated into the theoretical material of each chapter as a continuing illustration. Nurse practitioners, physical therapists, physician assistants, and students are the intended audience.

978-1-60595-060-0, ©2014, 264 pages, 6x9, SC book, **\$55.50**

Online: eBook, **\$40.00**

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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

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**

FIRE SCIENCE & TECHNOLOGY

Performance-Based Codes and Fire Safety Design Methods

4th 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, **\$25.00**

GEOSCIENCE

Great Basin Evolution and Metallogeny–2015

Geological Society of Nevada Symposium, May 14-23, 2015

Edited by: William M. Pennell and Larry J. Garside

This two-volume set of peer-reviewed papers, shown in full color, focuses on the geological analysis of ore-rich deposits in the western United States, especially those containing gold, silver, cobalt, molybdenum and other high-value metals. A range of stratigraphic, lithographic, remote-sensing models and core sample analyses are presented, particularly of areas likely to host Carlin-type gold deposits. Original research is provided on geochemical analysis, exploration and mining technologies. The volumes contain critical data, maps and discoveries for geology and mining engineering.

978-1-60595-226-0, ©2015, 1,388 pages, 2 Vols./CD, 8.5x11, HC book, **\$200.00**

Great Basin Evolution and Metallogeny–2010

Geological Society of Nevada Symposium

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OTHER TECHNOLOGIES

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, **\$20.00**

NON-DESTRUCTIVE TESTING

Neutron Radiography

Proceedings of the Eighth World Conference—WCNR-8

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, 6x9, HC book/CD-ROM, **\$89.50**

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PACKAGING TECHNOLOGY

2019

Packaging Design Decisions

A Technical Guide

Roland ten Klooster, Frans Lox and Ton Schilperoord

Based on a popular handbook published originally in the Dutch language, the present volume is intended to help package designers and design team members to achieve cost-effective and problem-free packages. The book focuses on technical details about packaging that graphic artists, marketers, and engineers need to know to create a package that can be economically, practically, and lawfully fabricated on a large scale. Specifically, the text explains materials, machinery, printing, test methods, and regulations that negatively impact design options for primary and secondary packaging, including closures and labels. The book stresses how design must take into account every stage of a package throughout its lifecycle: processing, loading conditions, consumer response, and disposal. Data is provided for plastics, paper, metal, glass, and cardboard in laminated food packages, boxes, cans, jars, bottles, and shipping containers.

978-1-60595-070-9, ©2019, 400 pages, 6x9, HC book, **\$129.50**

Online: eBook, **\$95.00**

2018

The 21st IAPRI World Conference on Packaging

Packaging: Driving a Sustainable Future

Proceedings: June 18-22, 2018, Jinan University, Guangzhou, China

Edited by: Zhi-Wei Wang

Following the theme, Packaging: Driving a Sustainable Future, the presentations at this global conference include the latest research in active packaging, and packaging for food, agricultural, and pharmaceutical products, as well as sections on materials, machinery, and standards and legislation. This proceedings is the latest in a series from this important global packaging meeting, which brings together packaging researchers from around the world.

978-1-60595-046-4, ©2018, Online: eProceedings, **\$99.50**

2017

Packaging and Distribution of Fresh Fruits and Vegetables

Vanee Chonhenchob, S. Paul Singh and Jay Singh

A comprehensive explanation of technologies used to package fresh fruits and vegetables throughout the supply chain, i.e., from field to point of purchase, the book shows the connections among post-harvest treatment, packaging materials and systems, cold chain, transportation, storage, and merchandising. It presents and explains currently used as well as experimental packaging strategies, including edible coatings. It thus goes beyond lab-based science to clarify in technical detail how a wide variety of commercial produce, such as strawberries, apples, stonefruits, bananas etc. are processed and packaged to reduce bruising, spoilage and microbial contamination.

978-1-60595-327-4, ©2017, 264 pages, 6x9, HC book, **\$158.50**

Online: eBook, **\$125.00**

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PACKAGING TECHNOLOGY

2016

Bioactive Food Packaging

Strategies, Quality, Safety

Edited by: Michael Kontominas

Edited monograph explains the chemistry and effects of natural active ingredients incorporated into food packaging materials to prevent, suppress or kill microbes. Among the bioactive agents discussed are: scavengers, enzymes, peptides, polysaccharides, plant extracts, essential oils and more. Contributors explain impregnating these substances into packaging materials and their synergy in microbe suppression and quality control for muscle, dairy and cereal foods, including efficacy over time and shelf-life. The book presents and analyzes methods and research on how bioactives interact with packaged foods and the extent to which such interactions are or are not correlated with changes in the properties of packaged foods and levels of microbial population/ecology relevant to food safety. How bioactives affect practical packaging decisions, such as scale-up, fabrication and labeling, is also discussed, as are the ramifications of bioactives for food handling and regulations.

978-1-60595-117-1, ©2016, 486 pages, 6x9, HC book, **\$164.50**

Online: eBook, **\$135.00**

2015

Cartons, Crates & Corrugated Board

Handbook of Paper and Wood Packaging Technology

Second Edition

Diana Twede, Susan E.M. Selke, Donatien-Pascal Kamdem and David Shires

Revised and expanded edition of a volume that is now the standard professional reference and academic text for the technology of wood, paper and paperboard packaging. The new edition offers key technical, regulatory and marketing developments from the past decade, including barrier packaging, food contact and migration, folding carton design and the dynamics of corrugated paperboard in the distribution network. With addition of two more authors, the work has been updated with information on European and global tests and testing standards, as well as emerging product opportunities and sustainable paper and board packaging initiatives. New sample problems have improved the book as a resource for university and corporate instructors.

978-1-60595-135-5, ©2015, 584 pages, 6x9, HC book, **\$184.50**

Online: eBook, **\$115.00**

Student price available

Packaging and Transportation Forensics

Reducing Risk and Liability

S. Paul Singh and Jay Singh

This technical book outlines the laws and liabilities associated with producing, labeling and shipping packages. Special sections cover the regulations and risks of transport via truck, rail, ship and aircraft. Case law and court decisions illustrate strategies to lower the risk of accidents and lawsuits connected with all phases of packaging, including disposal. Covers personal injury, intellectual property, labels, cargo loading, regulations (including CFR 49, FMCSR, CVSA, and hazardous materials), tamper-evidence, accessibility, environmental impacts and more.

978-1-60595-164-5, ©2015, 368 pages, 6x9, HC book, **\$149.50**

Online: eBook, **\$120.00**

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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

A methodical guide to managing packaging, which 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, **\$45.00**

2012

18th IAPRI World Packaging Conference

Proceedings

OUT-OF-PRINT

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**

Online: eBook, **\$134.50**

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**

Online: eBook, **\$35.00**

Student price available

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PACKAGING TECHNOLOGY

2009

Fundamentals of Packaging Technology

Fourth Edition

Walter Soroka

This 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, **\$199.50**

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.

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, **\$145.00**

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PLASTICS/POLYMERS

2021

Photopolymerization Chemistry and Technology

Byron Christmas and Michael Idacavage

This book introduces the theory of light-induced polymerization utilizing ultraviolet (UV) and visible light and electron beams (EB) as the initiators, beginning with an analysis of the physical chemistry of photopolymerization and its advantages and disadvantages compared to other types. The volume explains how the underlying chemical reactions relate to the types of processes selected and product quality, with an in-depth consideration of the raw materials and equipment required for efficient UV and EB curing. Special attention is given to the principles of formulation and to applications where this type of curing leads to higher quality products at lower costs.

978-1-60595-427-1, December 2021, 300 pages, 6x9, HC book, **\$159.50**

Online: eBook, **\$125.00**

2016

Shape-Memory Polymers for Aerospace Applications

Novel Activation, Modeling, Characterization and Design

Edited by: Gyaneshwar Tandon, Amber McClung and Jeff Baur

This contributed volume investigates the parameters of shape-memory polymers (SMPs) required by aerospace, including synthesis, characterization, activation, and application in aircraft and space vehicles. It explains the chemistry and design of novel SMPs to meet the special demands of aeronautic performance, including heat and impact resistance, limited operational energies, aerodynamics, loading etc. The text analyzes and assesses shape-memory polymers and also composites and hybrid materials designed for use in reconfigurable applications in the military and commercial sectors, especially for morphing aircraft, micro air vehicles, deployable space structures, and adaptive engines. The chapters span novel synthesis, chemistry and activation of shape memory resins, constituent modeling and characterization methods, predictive methodologies, experimental validation, and case studies illustrating material property needs, design requirements and material performance.

978-1-60595-118-8, ©2016, 658 pages, 6x9, HC book, **\$175.00**

Online: eBook, **\$125.00**

2014

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, ©2014, 338 pages, 6x9, SC book, **\$75.00**

Online: eBook, **\$50.00**

Student price available

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PLASTICS/POLYMERS

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.

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

Online: eBook, **\$115.00**

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, 6x9, SC book plus CD-ROM, **\$159.50**

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, 100 pages, 8.5x11, spiral bound SC, **\$45.00**

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RELIABILITY ENGINEERING

2002 new/updates

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**

Online: eBook, **\$89.50**

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**

Online: eBook, **\$79.50**

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**

Online: eBook, **\$79.50**

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**

Online: eBook, **\$79.50**

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**

Online: eBook, **\$79.50**

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RELIABILITY ENGINEERING

2002 new/updates

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**

Online: eBook, **\$89.50**

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**

Online: eBook, **\$79.50**

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**

Online: eBook, **\$79.50**

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SPORTS INSTRUCTION

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 for a three-dimensional regimen.

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

2006

Baseball's Forgotten Basics

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