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Blackwell's Five-Minute Veterinary Practice Management Consult, Second Edition has been extensively updated and expanded, with 55 new topics covering subjects such as online technologies, hospice care, mobile practices, compassion fatigue, practice profitability, and more. Carefully formatted using the popular Five-Minute Veterinary Consult style, the book offers fast access to authoritative information on all aspects of practice management. This Second Edition is an essential tool for running a practice, increasing revenue, and managing staff in today's veterinary practice. Addressing topics ranging from client communication and management to legal issues, financial management, and human resources, the book is an invaluable resource for business management advice applicable to veterinary practice. Sample forms and further resources are now available on a companion website. Veterinarians and practice managers alike will find this book a comprehensive yet user-friendly guide for success in today's challenging business environment.

The emergence of 'new media' and social media is widely discussed in contemporary society. However, media and public communication are mostly analyzed within particular theoretical frameworks and within specific disciplinary fields. Such

approaches have created polarized views on media and communication, and fail to create an understanding of the interdependencies between these fields. This book expertly synthesizes competing theories and disciplinary viewpoints, integrates scholarly and cutting edge research, and examines international data from fast-growing markets including China, to provide a comprehensive, holistic view of the twenty-first century (r)evolution in media and public communication. The book identifies how the changes are located in practices rather than technologies and that these practices are emergent in highly significant ways. Engaging and accessible, the book is essential reading for media scholars and communication professionals, and a valuable text for courses in media studies, journalism, advertising, public relations, and organisational and political communication.

This book is a general introduction to intelligent or smart materials, systems and machines. Presented in understandable and non-mathematical terms, it is for anyone who is interested in future developments in these fields or who needs to be briefed on the current status of these interdisciplinary technologies. The intended audience comprises physicists, engineers, materials scientists and computer scientists of all levels, from undergraduates to post-doctoral practitioners. Contents: The Smart Approach OCo An Introduction to Smart Technologies; Sensing Systems for Smart Structures; Vibration Control Using Smart Structures; Data Fusion OCo The Role of Signal Processing for Smart Structures and Systems; Shape Memory Alloys OCo A

Smart Technology?; Piezoelectric Materials; Magnetostriction; Smart Fluid Machines; Smart Biomaterials OCo OC Out-SmartingOCO the Body's Defence Systems and Other Advances in Materials for Medicine; Natural Engineering OCo The Smart Synergy. Readership: Undergraduates and researchers in materials science and engineering, electrical & electronic engineering, systems engineering and aerospace engineering."

Handbook of Material Biodegradation, Biodeterioration, and Biostabilization, Second Edition gives extensive information on the microorganisms involved in the biodegradation of materials, along with the biocides which are permitted for use according to the most up-to-date worldwide legislation. Mechanisms of biodegradation and biodeterioration, results of biodeterioration, and methods of biostabilization are covered for a large number of products, making the title relevant for a range of industries and applications, including construction, coatings/paints, medical and pharmaceutical applications, and electronics. In addition, the health and safety aspects of biocide application are covered in detail, as well as the personal protection of practitioners who are required to use them. The contents and the most-up-to-date information make this book essential for almost all the fields of applied chemistry. Enables practitioners to identify the organisms responsible for biodeterioration in materials, select suitable preventative measures, and safely deploy methods of biostabilization Contains information on the biostabilization of various industrial

products, including 24 groups of polymers Includes critical (and current) health and safety, environmental, and regulatory guidelines and best practices, and their relationships to legislation, regulation, toxicity, micro-organisms, biocides, and polymers Essential reading for scientists and practitioners as new regulations eliminate the use of previously used materials Contains up-to-date information on legislation and regulations governing the use of biocides in the European Union, the United States, and worldwide Process Gas Chromatographs Fundamentals, Design and Implementation John Wiley & Sons

This handbook provides an exhaustive description of polyethylene. The 50+ chapters are written by some of the most experienced and prominent authors in the field, providing a truly unique view of polyethylene. The book starts with a historical discussion on how low density polyethylene was discovered and how it provided unique opportunities in the early days. New catalysts are presented and show how they created an expansion in available products including linear low density polyethylene, high density polyethylene, copolymers, and polyethylene produced from metallocene catalysts. With these different catalysts systems a wide range of structures are possible with an equally wide range of physical properties. Numerous types of additives are presented that include additives for the protection of the resin from the environment and processing, fillers, processing aids, anti-fogging agents, pigments, and flame retardants. Common processing methods including extrusion, blown film, cast film,

injection molding, and thermoforming are presented along with some of the more specialized processing techniques such as rotational molding, fiber processing, pipe extrusion, reactive extrusion, wire and cable, and foaming processes. The business of polyethylene including markets, world capacity, and future prospects are detailed. This handbook provides the most current and complete technology assessments and business practices for polyethylene resins.

An essential guide to the proven automated sample preparation process While the measurement step in sample preparation is automated, the sample handling step is manual and all too often open to risk and errors. The manual process is of concern for accessing data quality as well as producing limited reproducibility and comparability. Handbook of Automated Sample Preparation for CG-MS and LC-MS explores the advantages of implementing automated sample preparation during the handling phase for CG-MS and LC-MS. The author, a noted expert on the topic, includes information on the proven workflows that can be put in place for many routine and regulated analytical methods. This book offers a guide to automated workflows for both on-line and off-line sample preparation. This process has proven to deliver consistent and comparable data quality, increased sample amounts, and improved cost efficiency. In addition, the process follows Standard Operation Procedures that are essential for audited laboratories. This important book: Provides the information and tools needed for the implementation of instrumental sample preparation workflows Offers proven and detailed examples that can be adapted in analytical laboratories Shows how automated sample preparation can reduce cost per sample, increase sample amounts, and produce faster

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results Includes illustrative examples from various fields such as chemistry to food safety and pharmaceuticals Written for personnel in analytical industry, pharmaceutical, and medical laboratories, Handbook of Automated Sample Preparation for CG-MS and LC-MS offers the much-needed tools for implementing the automated sample preparation for analytical laboratories.

The thoroughly revised Fifth Edition of New Drug Approval Process supplies readers with the latest global changes that affect pharmaceutical product approval and influence how new products are researched and marketed. Updated chapters include: advances in international regulatory requirements, including ICH guidelines and harmonization a step-by-step Sterile Drug Products: Formulation, Packaging, Manufacturing, and Quality teaches the basic principles of the development and manufacture of high quality sterile dosage forms. The author has 38 years of experience in the development and manufacture of sterile dosage forms including solutions, suspensions, ophthalmics and freeze dried products. This book is based on the courses he has delivered for over three decades, to over 3000 participants, and is intended to remain relevant for the indefinite future even as new technologies and new applications of old technologies become common. This is an ideal reference book for those working directly and indirectly with sterile dosage forms, be it product development (formulation, package, process, analytical), manufacturing, quality control, quality assurance, regulatory, purchasing, or project management. This book is also intended as an educational resource for the pharmaceutical and biopharmaceutical industry and pharmacy schools, providing basic knowledge and principles in four main areas of parenteral science and technology: Product development, including formulation, packaging, and process development.

Manufacturing, including basic teaching on all the primary unit operations involved in preparation of sterile products and the underlying importance of contamination control. Quality and regulatory, including the application of good manufacturing practice regulations, aseptic processing guidelines, and unique quality control testing methods for the sterile dosage form. Clinical aspects, including administration, potential hazards, and biopharmaceutics of sterile products in a clinical setting.

The character of modern power systems is changing rapidly and inverters are taking over a considerable part of the energy generation. A future purely inverter-based grid could be a viable solution, if its technical feasibility can be first validated. The focus of this work lies on inverter dominated microgrids, which are also mentioned as 'hybrid' in several instances throughout the thesis. Hybrid, as far as the energy input of each generator is concerned. Conventional fossil fuel based generators are connected in parallel to renewable energy sources as well as battery systems. The main contributions of this work comprise of: The analysis of detailed models and control structures of grid inverters, synchronous generators and battery packs and the utilization of these models to formulate control strategies for distributed generators. The developed strategies accomplish objectives in a wide time scale, from maintaining stability during faults and synchronization transients as well as optimizing load flow through communication-free distributed control. Die Struktur der modernen Energieversorgung hat sich in den letzten Jahrzehnten massiv geändert. Dezentrale Generatoren, die auf Wechselrichtern basieren, übernehmen einen großen Teil der Energieerzeugung. Ein ausschließlich wechselrichterbasiertes Netz wäre ein realistischer Ansatz, wenn seine technische Machbarkeit verifiziert werden könnte. Die wichtigsten Beiträge

dieser Arbeit sind: Die Analyse von Modellen und Regelstrukturen von Netzwechselrichtern, Synchrongeneratoren und Batterieanlagen. Die entwickelten Modelle werden verwendet, um Regelstrategien für dezentrale Generatoren in Mittelspannungsinselnetzen zu formulieren. Die erste Strategie ist eine Synchronisationsmethode für netzbildende Wechselrichter. Zweitens wird die Leistungsaufteilung in Mittelspannungsinselnetzen mittels Droop Regelung analysiert. Weiterhin erfolgt die Untersuchung der transienten Lastaufteilung zwischen netzbildenden Einheiten mit unterschiedlichen Zeitkonstanten. Beim Betrieb mehrerer paralleler Wechselrichter wird der Einfluss der Netzimpedanz auf die transiente Lastaufteilung analysiert. Die dritte entworfene Regelstrategie umfasst die Integration der Sekundärregelung in die Primärregelung. Der Ladezustand von Batterien wird mit der Lastaufteilung gekoppelt, um die Autonomie des Netzes zu stärken. Abschließend wird eine Kurzschlussstrategie für netzbildende und netzspeisende Wechselrichter entwickelt. Ziel der Strategie ist die Maximierung des Kurzschlussstromes. Als zusätzliche Randbedingung soll keine Kommunikation zwischen Generatoren stattfinden.

This book provides a comprehensive overview of the biosimilar regulatory framework, the development process and clinical aspects for development of biosimilars. The development path of a biosimilar is just as unique as a development path of a new drug, tailored by the mechanism of action, the quality of the molecule, published information on the reference product, the current competitive environment, the target market and regulatory guidance, and most importantly, the emerging totality of evidence for the proposed biosimilar during development. For the ease of readers, the book comprises of six sections as follows: Section I: Business, Health Economics and Intellectual Property Landscape for Biosimilars Section II:

Regulatory Aspects of Development and Approval for Biosimilars Section III: Biopharmaceutical Development and Manufacturing of Biosimilars Section IV: Analytical Similarity Considerations for Biosimilars Section V: Clinical aspects of Biosimilar Development Section VI: Biosimilars- Global Development and Clinical Experience Chapters have been written by one or more experts from academia, industry or regulatory agencies who have been involved with one or more aspects of biosimilar product development. The authors and editors have an expertise in commercialization and pricing of biosimilars, intellectual property considerations for biosimilars, chemistry manufacturing controls (CMC) and analytical development for biosimilars, regulatory and clinical aspects of biosimilar development. Besides the industry practitioners, the book includes several contributions from regulators across the globe.

Biomedical Technology and Devices, Second Edition focuses on the equipment, devices, and techniques used in modern medicine to diagnose, treat, and monitor human illnesses. Gathering together and compiling the latest information available on medical technology, this revised work adds ten new chapters. It starts with the basics, introducing the history of the thermometer and measuring body temperature, before moving on to a medley of devices that are far more complex. This book explores diverse technological functions and procedures including signal processing, auditory systems, magnetic resonance imaging, ultrasonic and emission imaging, image-guided thermal therapy, medical robotics, shape memory alloys, biophotonics, and tissue engineering. Each chapter offers a description of the technique, its technical considerations, and its use according to its applications and relevant body systems. It can be used as a professional resource, as well as a textbook for undergraduate and graduate

students.

Serving as an all-in-one guide to the entire field of coatings technology, this encyclopedic reference covers a diverse range of topics-including basic concepts, coating types, materials, processes, testing and applications-summarizing both the latest developments and standard coatings methods. Take advantage of the insights and experience of over

Handbook of Thermoset Plastics, Fourth Edition provides complete coverage of the chemical processes, manufacturing techniques and design properties of each polymer, along with its applications. This new edition has been expanded to include the latest developments in the field, with new chapters on radiation curing, biological adhesives, vitrimers, and 3D printing. This detailed handbook considers the practical implications of using thermoset plastics and the relationships between processing, properties and applications, as well as analyzing the strengths and weakness of different methods and applications. The aim of the book is to help the reader to make the right decision and take the correct action on the basis of informed analysis – avoiding the pitfalls the authors' experience has uncovered. In industry, the book supports engineers, scientists, manufacturers and R&D professionals working with plastics. The information included will also be of interest to researchers and advanced

students in plastics engineering, polymer chemistry, adhesives and coatings. Offers a systematic approach, guiding the reader through chemistry, processing methods, properties and applications of thermosetting polymers Includes thorough updates that discuss current practice and the new developments on biopolymers, nanotechnology, 3D printing, radiation curing and biological adhesives Uses case studies to demonstrate how particular properties make different polymers suitable for different applications Covers end-use and safety considerations

Petroleum engineering now has its own true classic handbook that reflects the profession's status as a mature major engineering discipline. Formerly titled the Practical Petroleum Engineer's Handbook, by Joseph Zaba and W.T. Doherty (editors), this new, completely updated two-volume set is expanded and revised to give petroleum engineers a comprehensive source of industry standards and engineering practices. It is packed with the key, practical information and data that petroleum engineers rely upon daily. The result of a fifteen-year effort, this handbook covers the gamut of oil and gas engineering topics to provide a reliable source of engineering and reference information for analyzing and solving problems. It also reflects the growing role of natural gas in industrial development by integrating natural gas topics throughout both volumes. More than a dozen

leading industry experts-academia and industry-contributed to this two-volume set to provide the best , most comprehensive source of petroleum engineering information available.

New product design and development is often the result of personal vision. Harnessing this often requires a special receptiveness and enthusiasm at all levels of an organization, which serves to unlock potential and can turn the entire organizational pyramid upside-down. It is particularly important to understand and develop those aspects of design which can be constructively employed by designers in a strategic alliance with management and research.; The papers in this volume result from the conference of the Design Society held at the University of Central England in September 1998. They show how design-led product development has worked in a range of industries, from engineering through to design and management consultancy. Not only practitioners but also students of industrial design and management should find this a valuable contribution to the subject.

FIELD & STREAM, America's largest outdoor sports magazine, celebrates the outdoor experience with great stories, compelling photography, and sound advice while honoring the traditions hunters and fishermen have passed down for generations.

A guide to the fundamentals of applied gas chromatography and the process gas chromatograph, with practical procedures for design and troubleshooting This comprehensive resource provides the theory that underpins a full understanding of the fundamental techniques of gas chromatography and the process analyzer. Without relying on complex mathematics, the book addresses hands-on applications of gas chromatographs within process industries. The author – a noted expert on the topic – details both the scientific information needed to grasp the material presented and the practical applications for professionals working in the field. Process Gas Chromatographs: Fundamentals, Design and Implementation comprises 15 chapters, a glossary of terms and a series of self-assessment questions and quizzes. This important resource: Describes practical procedures for design and troubleshooting Contains concise chapters that provide a structured course for advanced students in process engineering Reviews the fundamentals of applied gas chromatography Details the operation and maintenance of process gas chromatographs Offers a summary, and self-assessment questions, for every chapter Is written by an international expert in the field with extensive industry knowledge and teaching experience in courses on process sampling systems and gas chromatography Written for process analyzer engineers and technicians, application engineers, and industrial

environmental engineers, *Process Gas Chromatographs: Fundamentals, Design and Implementation* offers an essential guide to the basics of gas chromatography and reviews the applications of process gas chromatographs in industry today.

Optoelectronics - Devices and Applications is the second part of an edited anthology on the multifaced areas of optoelectronics by a selected group of authors including promising novices to experts in the field. Photonics and optoelectronics are making an impact multiple times as the semiconductor revolution made on the quality of our life. In telecommunication, entertainment devices, computational techniques, clean energy harvesting, medical instrumentation, materials and device characterization and scores of other areas of R

Designed to assist health care providers in meeting the needs of their non-English speaking clients. Contains a list of over 600 language-specific health education materials. Includes listings for materials in Cambodian (Khmer), Hmong, Lao, Vietnamese, Arabic, Bosnian/Serbo-Croatian, Haitian Creole and French, Russian, Somali, and Spanish on a variety of health care topics including Hepatitis B, HIV/AIDS, STDs, TB, breast health, dental care, family planning, immunization, and prenatal care. Ordering information, a listing of sources for materials, and a listing of refugee health coordinators are included.

This key handbook provides a detailed reference for environmentally concerned

purchasers of building products, and complements the Green Building Handbook Vol 1. Following the format of the original, this book discusses current issues in green building before moving on to consider eight building component types: fencing products, flat roofing membranes, glazing products, electrical wiring, adhesives, straw bale building, interior decoration and indoor air quality and ventilation. Invaluable for the specifier, this companion handbook will be useful to all those interested in finding greener ways of designing and making buildings.

Standard Handbook of Petroleum and Natural Gas Engineering, Third Edition, provides you with the best, state-of-the-art coverage for every aspect of petroleum and natural gas engineering. With thousands of illustrations and 1,600 information-packed pages, this handbook is a handy and valuable reference. Written by dozens of leading industry experts and academics, the book provides the best, most comprehensive source of petroleum engineering information available. Now in an easy-to-use single volume format, this classic is one of the true "must haves" in any petroleum or natural gas engineer's library. A classic for over 65 years, this book is the most comprehensive source for the newest developments, advances, and procedures in the oil and gas industry. New to this edition are materials covering everything from drilling and production to the economics of the oil patch. Updated sections include: underbalanced drilling; integrated reservoir management; and environmental health and safety. The sections on natural gas have been updated with new sections on natural gas

liquefaction processing, natural gas distribution, and transport. Additionally there are updated and new sections on offshore equipment and operations, subsea connection systems, production control systems, and subsea control systems. Standard Handbook of Petroleum and Natural Gas Engineering, Third Edition, is a one-stop training tool for any new petroleum engineer or veteran looking for a daily practical reference. Presents new and updated sections in drilling and production Covers all calculations, tables, and equations for every day petroleum engineers Features new sections on today's unconventional resources and reservoirs

This book presents a comprehensive overview of wireless sensor networks (WSNs) with an emphasis on security, coverage, and localization. It offers a structural treatment of WSN building blocks including hardware and protocol architectures and also provides a systems-level view of how WSNs operate. These building blocks will allow readers to program specialized applications and conduct research in advanced topics. A brief introductory chapter covers common applications and communication protocols for WSNs. Next, the authors review basic mathematical models such as Voroni diagrams and Delaunay triangulations. Sensor principles, hardware structure, and medium access protocols are examined. Security challenges ranging from defense strategies to network robustness are explored, along with quality of service measures. Finally, this book discusses recent developments and future directions in WSN platforms. Each chapter concludes with classroom-tested exercises that reinforce key

concepts. This book is suitable for researchers and for practitioners in industry. Advanced-level students in electrical engineering and computer science will also find the content helpful as a textbook or reference.

Includes Part 1, Number 1 & 2: Books and Pamphlets, Including Serials and Contributions to Periodicals (January - December)

'Metal-Matrix Composites' are being used or considered for use in a variety of applications in the automotive, aerospace and sporting goods industries. This book contains sixteen chapters, all written by leading experts in the field, which focus on the processing, microstructure and characterization, mechanics and micromechanics of deformation, mechanics and micromechanics of damage and fracture, and practical applications of a wide variety of metal composites. A particularly noteworthy feature of this authoritative volume is its collection of state-of-the-art reviews of the relationships among processing, microstructural evolution, micromechanics of deformation and overall mechanical response.

Why does someone write a book about Tungsten? There are several reasons and precedents for this, the most important of which is that the last book on tungsten was written more than 20 years ago, in 1977, by St. W H. Yih and Ch T. Wang. During the intervening period there have been many new scientific and technological developments and innovations, so it was not only our opinion but the view of many other members of the "tungsten family" that it was time to start writing a new book about tungsten. Preparations of the new book began in 1994. Further impetus to the project was provided by the realization that in spite of this new knowledge having been presented at seminars or published in the technical press, a general

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acknowledgement of it by the majority of technicians and scientists is still far from being realized. It is our hope that this book will significantly contribute to a broader acceptance of recent scientific and technological innovations. An important prerequisite for such a project is the availability of a recently retired, experienced person willing to devote his time and talents to the tedious part of the exercise.

The handbook explains in plain terms why moldings shrink and warp, shows how additives and reinforcements change the picture, sets out the effect of molding process conditions, and tells why you never can have a single "correct" shrinkage value. But that's not all. The handbook shows how to alleviate the problem by careful design of the molded part and the mold and by proper material selection. It also examines computer-aided methods of forecasting shrinkage and warpage. And most important of all, the handbook gives you the data you need to work with. This is the most complete collection of shrinkage data ever made and includes an extensive compilation of hard-to-find multi-point information on how processing, part design, mold design, material and post mold treatment affect the part's final dimensions.

Manufacturers' figures for thousands of grades, along with an exhaustive search of magazines, journals, conference papers, books, web sites and brochures combine to make this a powerful resource. A lot depends on a dimensionally correct molding. Quality, speed to market, profit margins for the molder and toolmaker, the efficiency of secondary and assembly operations, reputation; all these are on the line. The Mold Shrinkage and Warpage Handbook is the book for people who have to live with shrinkage and warpage. It is the only book for people who have to commit themselves.

This book aims to address the major aspects of future drug product development and therapy

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for older adults, giving practical guidance for the rational product and clinical development and prescribing of drug products to this ever growing segment of the population. With authors coming from key “aging” markets such as Europe, the USA, China and Japan, the book will provide valuable information for students, scientists, regulators, practitioners, and other healthcare professionals from academia, industry and regulatory bodies.

Additive Manufacturing (AM), popularly known as 3D printing, is playing an increasingly significant role in the manufacturing arena. AM has revolutionized how prototypes are to be made and small batch manufacturing should be carried out. Due to high flexibility and high efficiency of lasers, laser-assisted Manufacturing (LAM) and AM technologies are recently getting much attention over traditional methods. This textbook is a timely information resource for undergraduates, postgraduates and researchers who are interested in this emerging technology. The book will cover the basics of lasers, optics and materials used for manufacturing and 3D printing. It will also include several case studies for readers to apply their understanding of the topics, provide sufficient theoretical background and insights to today's key laser-assisted AM processes and conclude with the future prospects of this exciting technology. This is the first textbook tailored specifically for Lasers in 3D Printing and Manufacturing with detailed explanations. The book will focus on laser-assisted 3D printing and Additive Manufacturing (AM) from basic principles of lasers, optics and AM materials to advanced AM technologies, including in-depth discussion on critical aspects throughout the laser-assisted AM processes, such as optical system design, laser-material interaction and laser parameters' optimization.

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