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Dosage Form Design Considerations

Allen & Unwin Academic

This proceedings volume gathers selected papers presented at the Chinese Materials Conference 2017 (CMC2017), held in Yinchuan City, Ningxia, China, on July 06-12, 2017. This book covers a wide range of material surface science, advanced preparation and processing technologies of materials, high purity materials, silicon purification technology, solidification science and technology, performance and structure safety of petroleum tubular goods and equipment materials, materials genomes, materials simulation, computation and design. The Chinese Materials Conference (CMC) is the most important serial conference of the Chinese Materials Research Society (C-MRS) and has been held each year since the early 1990s. The 2017 installment included 37 Symposia covering four fields: Advances in energy and environmental materials; High performance structural materials; Fundamental research on materials; and Advanced functional materials. More than 5500 participants attended the congress, and the organizers received more than 700 technical papers. Based on the recommendations of symposium organizers and after peer reviewing, 490 papers have been included in the present proceedings, which showcase the latest original research results in the field of materials, achieved by more than 300 research groups at various universities and research institutes.

Proceedings of SoCTA 2019 Springer Nature

The evolution of mechanical properties and its characterization is important to the weld quality whose further analysis requires mechanical property and microstructure correlation. Present book addresses the basic understanding of the Friction Stir Welding (FSW) process that includes effect of various process parameters on the quality of welded joints. It discusses about various problems related to the welding of dissimilar aluminium alloys including influence of FSW process parameters on the microstructure and mechanical properties of such

alloys. As a case study, effect of important process parameters on joint quality of dissimilar aluminium alloys is included.

Dissimilar Aluminium Alloys Academic Press

This volume presents research papers on additive manufacturing (popularly known as 3D printing) and joining which were presented during the 7th International and 28th All India Manufacturing Technology, Design and Research conference 2018 (AIMTDR 2018). The contents of this volume present the latest technological advancements for improving the efficiency, accuracy and speed of the additive manufacturing process and in fusion and solid-state welding technologies, with a variety of technologies, including fused deposition modelling, poly jet 3D printing, weld deposition based technology, selective laser melting and important welding technologies being covered. This volume will be of interest to academicians, researchers, and practicing engineers alike.

Proceedings of ICICC 2021, Volume 1 Springer Nature

This book focuses on soft computing and how it can be applied to solve real-world problems arising in various domains, ranging from medicine and healthcare, to supply chain management, image processing and cryptanalysis. It gathers high-quality papers presented at the International Conference on Soft Computing: Theories and Applications (SoCTA 2019), organized by the National Institute of Technology Patna, India. Offering valuable insights into soft computing for teachers and researchers alike, the book will inspire further research in this dynamic field.

Proceedings of the First International Conference on SCI 2016, Volume 2 Springer Nature

This book provides an innovative, realistic and reliable solution to the common problem of Indian water and energy sector due to the onset of the Impact of Climate Change and Large-Scale Urbanization. Twelve Case Studies and One Review Paper that were included in this book depict the way soft computation techniques, simulation and decision-making framework can optimize the best solution from multiple solutions to the problems of water and energy management which corresponds to a novel

symbiotic and synchronous nexus between water and the energy sector. All the studies included in this book are collected from all parts of India. The selected studies utilized the latest technologies like Multi-Criteria Decision Frame Work, Neural Networks and Nature-Based Optimization techniques to achieve diverse objectives from the prediction of climatic parameters to yield from ungauged watershed to performance optimization of Water Treatment Plant, Hydropower as well as futuristic alternative energy systems like Wave to Power Plants.

Water and Energy Management in India Seagull Books Pvt Ltd

This book presents high-quality, peer-reviewed papers from the FICR International Conference on Rising Threats in Expert Applications and Solutions 2020, held at IIS University Jaipur, Rajasthan, India, on January 17-19, 2020. Featuring innovative ideas from researchers, academics, industry professionals and students, the book covers a variety of topics, including expert applications and artificial intelligence/machine learning; advanced web technologies, like IoT, big data, and cloud computing in expert applications; information and cybersecurity threats and solutions; multimedia applications in forensics, security and intelligence; advances in app development; management practices for expert applications; and social and ethical aspects of expert applications in applied sciences.

Proceedings of AIMTDR 2018 McGraw Hill Professional

This book reviews the current applications and future prospects of nanomaterials in cancer diagnostics and therapy. Nanomaterials have recently emerged as a remarkable and promising tool for cancer therapy and diagnosis, due to their broad range of intrinsic molecular properties. To overcome the current limitations of nanoparticles in drug delivery systems, attempts have been made to synthesize nanoparticles from biological materials for targeted cancer therapy. This book provides concise evaluations of various potential bio-inspired platforms that mimic natural components of the body and offer effective and versatile drug delivery systems for cancer therapy. It also assesses the potential of nanoparticles to enhance the outcomes of cancer immunotherapy via immune cell activation and tumor microenvironment modulation. The book also summarizes in the applications of nanomaterials for the detection, prevention, and treatment of solid tumors and in the treatment of leukemia and lymphomas. In closing, it discusses ethical issues in nanomedicine, including risk assessment, risk management, and risk communication during clinical trials. The book offers a valuable source of information for students, academics, researchers, scientists, clinicians, and healthcare professionals working in nanotechnology and cancer research.

Proceedings of the 3rd International Conference on Communications and Cyber Physical Engineering Academic Press

This book presents selected papers from the 6th International Conference on Advances in Energy Research (ICAER 2017), which cover topics ranging from energy optimization, generation, storage and distribution, and emerging technologies, to energy management, policy, and economics. The book is inter-disciplinary in scope and addresses a host of different areas relevant to energy research, making it of interest to scientists, policymakers, students, economists, rural activists, and social scientists alike.

Multimedia Tools and Applications

Springer Nature
This book includes high-quality research papers presented at the Fourth International Conference on Innovative Computing and Communication (ICICC 2021), which is held at the Shaheed Sukhdev College of Business Studies, University of Delhi, Delhi, India, on February 20-21, 2021. Introducing the innovative works of scientists, professors, research scholars, students and industrial experts in the field of computing and communication, the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real-time applications.

Proceedings of Chinese Materials Conference 2017 CRC Press
One of the most comprehensive books in the field, this import from TATA McGraw-Hill rigorously covers the latest developments in medical imaging systems, gamma camera, PET camera, SPECT camera and lithotripsy technology. Written for working engineers, technicians, and graduate students, the book includes of hundreds of images as well as detailed working instructions for the newest and more popular instruments used by biomedical engineers today.

Advances in Mechanical Engineering Springer

A thorough look at how societies can use cultural algorithms to understand human social evolution For those working in computational intelligence, developing an understanding of how cultural algorithms and social intelligence form the essential framework for the evolution of human social interaction is essential. This book, *Cultural Algorithms: Tools to Model Complex Dynamic Social Systems*, is the foundation of that study. It showcases how we can use cultural algorithms to organize social structures and develop socio-political systems that work. For such a vast topic, the text covers everything from the history of the development of cultural algorithms and the basic framework with which it was organized. Readers will also learn how other nature-inspired algorithms can be expressed and how to use social metrics to assess the performance of various algorithms. In addition to these topics, the book covers topics including: The CAT system including the Repast Symphony System and CAT Sample Runs How to

problem solve using social networks in cultural algorithms with auctions Understanding Common Value Action to enhance Social Knowledge Distribution Systems Case studies on team formations An exploration of virtual worlds using cultural algorithms For industry professionals or new students, *Cultural Algorithms* provides an impactful and thorough look at both social intelligence and how human social evolution translates into the modern world. *Herbal Bioactive-Based Drug Delivery Systems* CRC Press
This book presents select peer-reviewed proceedings of the International Conference on Advances in Mechanical Engineering (ICAME 2020). The contents cover latest research in several areas such as advanced energy sources, automation, mechatronics and robotics, automobiles, biomedical engineering, CAD/CAM, CFD, advanced engineering materials, mechanical design, heat and mass transfer, manufacturing and production processes, tribology and wear, surface engineering, ergonomics and human factors, artificial intelligence, and supply chain management. The book brings together advancements happening in the different domains of mechanical engineering, and hence, this will be useful for students and researchers working in mechanical engineering.

The Wrestler's Body Springer
Indian culture and spiritualism have exerted a strong hold over the world's greatest intellectuals—from psychologists like Carl Jung to poets like T.S. Eliot, from orators like Swami Vivekananda to philosophers like Sri Aurobindo, from statesmen like Dr A.P.J. Abdul Kalam to writers like H.G. Wells. Compiled by Salil Gewali, *Great Minds on India* is a remarkable collection of the thoughts and views of these world-renowned opinion-makers on India's cultural inheritance and glorious legacy.

ENGINEERING GRAPHICS FOR DEGREE Springer

Microbial Diversity in Hotspots provides an introduction to microbial diversity and microbes in different hotspots and threatened areas. The book gives insights on extremophiles, phyllosphere and rhizosphere,

covers fungal diversity, conservation and microbial association, focuses on biodiversity acts and policies, and includes cases studies. Microbes explored are from the coldest to the hottest areas of the world. Although hotspots are zones with extremely high microbiology activities, the knowledge of microbial diversity from these areas is very limited, hence this is a welcome addition to existing resources. Provides an introduction to microbial biotechnology Addresses novel approaches to the study of microbial diversity in hotspots Provides the basics, along with advanced information on microbial diversity Discusses the techniques used to examine microbial diversity with their applications and respective pros and cons for sustainability Explores the importance of microbial genomes studies in commercial applications *Microbial Diversity and Ecology in Hotspots* PHI Learning Pvt. Ltd.

This volume contains 68 papers presented at SCI 2016: First International Conference on Smart Computing and Informatics. The conference was held during 3-4 March 2017, Visakhapatnam, India and organized communally by ANITS, Visakhapatnam and supported technically by CSI Division V - Education and Research and PRF, Vizag. This volume contains papers mainly focused on smart computing for cloud storage, data mining and software analysis, and image processing. *Principles of Microbial Ecology* Springer

A timely exploration of intellectual dogmatism in politics, economics, religion, and literature—and what can be done to fight it Polarization may be pushing democracy to the breaking point. But few have explored the larger, interconnected forces that have set the stage for this crisis: namely, a rise in styles of thought, across a range of fields, that literary scholar Gary Saul Morson and economist Morton Schapiro call "fundamentalist." In *Minds Wide Shut*, Morson and Schapiro examine how rigid adherence to ideological thinking has altered politics, economics, religion, and literature in

ways that are mutually reinforcing and antithetical to the open-mindedness and readiness to compromise that animate democracy. In response, they propose alternatives that would again make serious dialogue possible.

Fundamentalist thinking, Morson and Schapiro argue, is not limited to any one camp. It flourishes across the political spectrum, giving rise to dueling monologues of shouting and abuse between those who are certain that they can't be wrong, that truth and justice are all on their side, and that there is nothing to learn from their opponents, who must be evil or deluded. But things don't have to be this way. Drawing on thinkers and writers from across the humanities and social sciences, Morson and Schapiro show how we might begin to return to meaningful dialogue through case-based reasoning, objective analyses, lessons drawn from literature, and more. The result is a powerful invitation to leave behind simplification, rigidity, and extremism—and to move toward a future of greater open-mindedness, moderation, and, perhaps, even wisdom.

Artificial Neural Networks and Multi-Criteria Decision Making Approaches Legare Street Press
Herbal Bioactive-Based Drug Delivery Systems: Challenges and Opportunities provides a wide-ranging, in-depth resource for herbal bioactives, including detailed discussion of standardization and regulations. The book first explores specific drug delivery systems such as gastrointestinal, ocular, pulmonary, transdermal, and vaginal and rectal. It then discusses novel applications for nano, cosmetics, nutraceuticals, wound healing and cancer treatment. Finally, there is a section focusing on standardization and regulation which includes an enhancement of properties. This book is an essential resource for pharmacologists, pharmaceutical scientists, material scientists, botanists, and all those interested in natural products and drug delivery

systems developments. Explores standardization, regulation and enhancement issues in herbal bioactives Discusses novel developments, herbal cosmetics and toxicity/interaction issues Provides a comprehensive reference on all aspects of herbal bioactives

Gene and Cell Therapy: Biology and Applications National Academies Press

This book examines the principles and applications of biomedical imaging and signals processing as well as the advances of multimodal imaging and multi-feature quantification for disease diagnosis and treatments in ophthalmology, stroke, chemotherapy, and neurology. Chapters cover such topics as image segmentation and registration, feature selection for classification, micro-texture characterization, simulation of tissue deformation, and high-level statistical analyses. The chapters also discuss different imaging modalities including MRI and EEG, confocal microscopy, and molecular imaging for improving the accuracy of disease detection via higher spatiotemporal resolution and better illustration. Overall, the book provides a comprehensive review of biomedical imaging and signal processing, informing readers with current and insightful knowledge in these fields.

OMICS-Based Approaches in Plant Biotechnology John Wiley & Sons
 This book provides a detailed study of geometrical drawing through simple and well-explained worked-out examples. It is designed for first-year engineering students of all branches. The book is divided into seven modules. A topic is introduced in each chapter of a module with brief explanations and necessary pictorial views. Then it is discussed in detail through a number of worked-out examples, which are explained using step-by-step procedure and illustrating drawings. Module A covers the fundamentals of manual drafting, lettering, freehand sketching and dimensioning of views. Module B describes two-dimensional drawings like geometrical constructions, conics, miscellaneous curves and scales. Three-dimensional drawings, such as projections of points, lines, plane lamina, geometrical solids and sections of them are well explained in Module C. Module D deals with intersection of surfaces and their

developments. Drawing of pictorial design views is illustrated in Module E, which includes isometric projection, oblique projection and perspective projections. Module F covers the fundamentals of machine drawing. Finally, in Module G the book introduces computer-aided drafting (CAD) to make the readers familiar with the state-of-the-art techniques of drafting. Key Features : Follows the International Standard Organization (ISO) code of practice for drawing. Includes a large number of dimensioned illustrations, worked-out examples, and university questions and answers to explain the geometrical drawing process. Contains chapter-end exercises to help students develop their drawing skills.

--Preliminary Program World Scientific

Dosage Form Design Parameters, Volume I, examines the history and current state of the field within the pharmaceutical sciences, presenting key developments. Content includes drug development issues, the scale up of formulations, regulatory issues, intellectual property, solid state properties and polymorphism. Written by experts in the field, this volume in the Advances in Pharmaceutical Product Development and Research series deepens our understanding of dosage form design parameters. Chapters delve into a particular aspect of this fundamental field, covering principles, methodologies and the technologies employed by pharmaceutical scientists. In addition, the book contains a comprehensive examination suitable for researchers and advanced students working in pharmaceuticals, cosmetics, biotechnology and related industries. Examines the history and recent developments in drug dosage forms for pharmaceutical sciences Focuses on physicochemical aspects, prefomulation solid state properties and polymorphism Contains extensive references for further discovery and learning that are appropriate for advanced undergraduates, graduate students and those interested in drug dosage