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26th European Symposium on Computer Aided Process Engineering - 2016-06-17

26th European Symposium on Computer Aided Process Engineering contains the papers presented at the 26th European Society of Computer-Aided Process Engineering (ESCAPE) Event held at Portorož Slovenia, from June 12th to June 15th, 2016. Themes discussed at the conference include Process-product Synthesis, Design and Integration, Modelling, Numerical analysis, Simulation and Optimization, Process Operations and Control and Education in CAPE/PSE. Presents findings and discussions from the 26th European Society of Computer-Aided Process Engineering (ESCAPE) Event *The Rotating Disc Contractor Process-computer Interface* - P. J. Jackson 1976

Frontiers in Spray Drying - Nan Fu 2020-08-13

This book covers the latest developments and advances in spray drying and describes how they impact the basic aspect of designing and operating spray dryers. This generic approach allows users to understand how different basic aspects of spray drying have advanced. Users will learn how to apply these advances in their own specific spray drying applications. This book also discusses the handling and control of spray dried products. Includes the latest techniques for use in the design and operation of spray drying operations Covers the basic operations of spray drying that can be applied to different applications of spray drying Discusses the handling and control of spray dried product qualities from a general approach, allowing readers to tailor these approaches to their own

specific products This book is aimed at professionals, researchers, and academics working in the fields of food, chemical, pharmaceutical, and industrial engineering.

Desalination Concentrate Management - Bradley Ladewig 2011-10-25

This book examines five methods used for concentrate management, namely; disposal to surface water, disposal to sewerage, deep well injection, land applications and evaporation ponds. In particular, the book focuses on the design, siting, cost, and environmental impacts of these methods. While these methods are widely practiced in a variety of settings already, there are many limitations that restrict the use of certain disposal options in particular locations.

Energy Research Abstracts - 1978

Semiannual, with semiannual and annual indexes. References to all scientific and technical literature coming from DOE, its laboratories, energy centers, and contractors. Includes all works deriving from DOE, other related government-sponsored information, and foreign nonnuclear information. Arranged under 39 categories, e.g., Biomedical sciences, basic studies; Biomedical sciences, applied studies; Health and safety; and Fusion energy. Entry gives bibliographical information and abstract. Corporate, author, subject, report number indexes.

Chemical Engineering Faculty Directory - J. Steven Swinnea 2010

This up-to-date faculty directory lists the contact information of all the faculty members, placement administrators, and student organizations of almost 500 worldwide

universities and technical institutes offering chemical engineering curricula. This offers a comprehensive reference tool that is unique and valuable, in that there is no such directory available on chemical engineering. The indices make it easy to find the current affiliation of any chemical, biological and environmental engineering faculty by listing in alphabetical order.

Advanced Polymeric Materials - Gabriel O. Shonaike 2003-04-14

Featuring contributions from experts at some of the world's leading academic and industrial institutions, *Advanced Polymeric Materials: Structure Property Relationships* brings into book form a wealth of information previously available primarily only within computer programs. In a welcome narrative treatment, it provides comprehensive coverage of p

Green Technologies - Pau Loke Show 2020-11-23

Green technologies can be identified as key components in Industry 4.0. The scope of this book is to address how conventional green technologies can be a part of smart industries by minimizing waste, maximizing productivity, optimizing the supply chain, or by additive manufacturing. This theme focuses on the scope and challenges of integrating current environmental technologies in future industries. This book, "Green Technologies: Bridging Conventional Practices and Industry 4.0", aims to incorporate and introduce the advances in green technologies to the cyber-based industries. It is hoped that the novel green technologies presented in this book are useful in assisting the global community in working towards fulfilling the Sustainable Development Goals.

The Solution of the Equations of Motion for a Non-Newtonian Liquid Flowing Through a Sudden Expansion Using a Numerical Technique - A. L. Halmos 1973

The Grants Register 2023 - Palgrave Macmillan 2022-09-28

The Grants Register 2023 is the most authoritative and comprehensive guide available of postgraduate and professional funding worldwide. It contains international coverage of grants in almost 60 countries, both English and

non-English speaking; information on subject areas, level of study, eligibility and value of awards; and information on over 6,000 awards provided by over 1,300 awarding bodies.

Awarding bodies are arranged alphabetically with a full list of awards to allow for comprehensive reading. The Register contains full contact details including telephone, fax, email and websites as well as details of application procedures and closing dates. It is updated annually to ensure accurate information.

Colloids in Biotechnology - Monzer Fanun 2010-09-17

Colloids show great potential in a wide variety of applications, including drug delivery and medical imaging, and the design and fabrication of colloid systems has attracted considerable interest in the research community. *Colloids in Biotechnology* describes developments in the field of biotechnological applications in the past decade and bridges the gap between these research efforts and commercially viable options. Highlights the role of colloids in a plethora of biotechnical applications Striking a balance between theory and experiment, between principles and applications, and between molecular and physical approaches to the subject, the book assembles contributions from an international community of colloid scientists to provide a comprehensive reference on the role of colloids in biotechnology and biomedicine. The authors discuss new types of biosurfactants; mixtures of surfactants; and peptides, proteins, and polyelectrolytes. They also describe the formation and properties of magnetic colloids and review their applications in chemical biology and medicine. They highlight current progress in the design of self-assembled materials for biotechnology, and they also cover the formation of nanofibres and the use of sol-gel technology in biology. Contains contributions from a diverse team of researchers The chapter authors have been given the freedom to present the spectrum of the relevant science, from pure to applied, in their particular topic. The compilation of this vast experience makes this text a valuable reference for those working in research and development in a range of technologies as well as academic scientists in the colloid and surface science field.

Nano-food Engineering - Umesh Hebbar
2020-08-06

This extensive and singular work focuses on current applications of nanotechnology in food systems. The functionality and applicability of food-related nanotechnology is covered in depth, presenting a view on the food processing, packaging, storage and safety assessment of nanotechnology in the food industry. Multiple nanostructures are covered, each with their specific ingredient choice, production strategy, functionality and application in food engineering. Individual chapters focus on current processing methods and applications of nanotechnology in foods. *Nano-food Engineering Volume One* brings together panels of highly accomplished experts in the field of composites, nanotechnology and chemical engineering and food technology. The work encompasses basic studies and addresses novel issues, covering all engineering aspects, opportunities and challenges and solutions of nano-foods.
Scientific Bulletin - 1978

Polyhedral Oligomeric Silsesquioxane (POSS) Polymer Nanocomposites - Sabu Thomas
2021-04-01

Polyhedral Oligomeric Silsesquioxane (POSS) Polymer Nanocomposites: From Synthesis to Applications offers extensive coverage of polyhedral oligomeric silsesquioxanes and their nanocomposites, including their synthesis, characterization, interfacial interactions and advanced applications. Sections introduce essentials, information on their preparation and discussions on polymeric materials, including elastomers, thermoplastics, thermosetting polymers, polymer blends and IPNs. Further sections cover the latest analysis techniques, examine the properties of POSS-polymer nanocomposites, and discuss key application areas, such as biological, energy, defense, and space. Finally, issues surrounding industry implementation and lifecycle are explored. This is a valuable reference for researchers, scientists and advanced students in the areas of polymer composites and nanocomposites, polymer chemistry, polymer physics, polymer science, and materials science and engineering. In an industrial setting, this book will be of great interest to scientists, R&D professionals, and

engineers across industries and disciplines. Covers all aspects of polyhedral oligomeric silsesquioxanes (POSS) and their nanocomposites, including synthesis and characterization techniques, properties, analysis, applications and trends. Targets POSS nanocomposites, describing synthesis, characterization and the selection of POSS filler types according to polymeric material. Explains the preparation and utilization of POSS polymer nanocomposites for cutting-edge applications, including biological, energy, and defense field applications.

Food Waste Recovery - Charis M. Galanakis
2020-12-01

Food Waste Recovery: Processing Technologies, Industrial Techniques, and Applications, Second Edition provides information on safe and economical strategies for the recapture of value compounds from food wastes while also exploring their re-utilization in fortifying foods and as ingredients in commercial products. Sections discuss the exploration of management options, different sources, the Universal Recovery Strategy, conventional and emerging technologies, and commercialization issues that target applications of recovered compounds in the food and cosmetics industries. This book is a valuable resource for food scientists, technologists, engineers, chemists, product developers, researchers, academics and professionals working in the food industry. Covers food waste management within the food industry by developing recovery strategies. Provides coverage of processing technologies and industrial techniques for the recovery of valuable compounds from food processing by-products. Explores the different applications of compounds recovered from food processing using three approaches: targeting by-products, targeting ingredients, and targeting bioactive applications.

Modelling Drying Processes - Xiao Dong Chen
2013-05-23

A comprehensive summary of the state of the art in the reaction engineering approach to drying processes, including modelling, experimentation and applications.

Application of Adsorbents for Water Pollution Control - Amit Bhatnagar
2012-11-11

Among various water and wastewater treatment

technologies, the adsorption process is considered better because of lower cost, simple design and easy operation. Activated carbon (a universal adsorbent) is generally used for the removal of diverse types of pollutants from water and wastewater. Research is now being directed towards the modification of carbon surfaces to enhance its adsorption potential towards specific pollutants. However, widespread use of commercial activated carbon is sometimes restricted especially in developing or poor countries due to its higher costs. Attempts are therefore being made to develop inexpensive adsorbents utilizing abundant natural materials, agricultural and industrial waste materials. Use of waste materials as low-cost adsorbents is attractive due to their contribution in the reduction of costs for waste disposal, therefore contributing to environmental protection. This e-book explores knowledge on recent developments in adsorbents synthesis and their use in water pollution control. This handy reference work is intended for researchers and scientists actively engaged in the study of adsorption and the development and application of efficient adsorption technology for water treatment. This e-book covers a wide range of topics including modeling aspects of adsorption process and the applications of conventional and non-conventional adsorbents in water remediation emphasizing sorption mechanisms of different pollutants on the adsorbents.

Integrated Biorefineries - Paul R. Stuart
2012-12-10

Integrated Biorefineries: Design, Analysis, and Optimization examines how to create a competitive edge in biorefinery innovation through integration into existing processes and infrastructure. Leading experts from around the world working in design, synthesis, and optimization of integrated biorefineries present the various aspects of this complex process, capturing the state of the art in the advancing bioeconomy. The book defines an integrated biorefinery as a processing facility that transforms biomass into value-added products—from biofuels and biochemicals to food and pharmaceuticals. The chapters cover biorefinery product and process design, supply chains, process analysis, feedstocks,

technologies, and policy and environmental analysis. They focus on second-generation feedstocks, including forestry resources, energy crops, agricultural residues, oils, and various waste materials. With the growing interest in sustainability in general and in renewable resources in industrial facilities, biorefineries are likely to play increasingly significant roles and have greater economic, environmental, and societal impact. This book fills an information gap by presenting cutting-edge advances that can effectively guide engineers and decision makers in the synthesis, selection, design, analysis, and optimization of biorefineries.

Nutraceutical and Functional Food Components - Charis M. Galanakis 2021-10-24

Nutraceutical and Functional Food Components: Effects of Innovative Processing Techniques, Second Edition highlights the impact of recent food industry advances on the nutritional value, functional properties, applications, bioavailability, and bioaccessibility of food components. This second edition also assesses shelf-life, sensory characteristics, and the profile of food products. Covering the most important groups of food components, including lipids, proteins, peptides and amino acids, carbohydrates, dietary fiber, polyphenols, carotenoids, vitamins, aromatic compounds, minerals, glucosinolates, enzymes, this book addresses processing methods for each. Food scientists, technologists, researchers, nutritionists, engineers and chemists, agricultural scientists, other professionals working in the food industry, as well as students studying related fields, will benefit from this updated reference. Focuses on nutritional value, functional properties, applications, bioavailability and bioaccessibility of food components Covers food components by describing the effects of thermal and non-thermal technologies Addresses shelf-life, sensory characteristics and health claims

Issues in Chemical Engineering and other Chemistry Specialties: 2011 Edition -
2012-01-09

Issues in Chemical Engineering and other Chemistry Specialties: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Chemical Engineering and other

Chemistry Specialties. The editors have built Issues in Chemical Engineering and other Chemistry Specialties: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Chemical Engineering and other Chemistry Specialties in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Chemical Engineering and other Chemistry Specialties: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Wastewater Reuse and Management - Sanjay K. Sharma 2012-11-06

Over the past 50 years the volume of wastewater has grown exponentially as a result of the increasing world population and the expansion of industrial developments. Researchers all over the world have been trying to address this issue suitably in order to fight water scarcity; yet, it is only recently that wastewater recycling has caught their attention as an effective and responsible solution. Wastewater is a resource that can be adequately treated to successfully satisfy most water demands as well as decreasing wastewater discharges and preventing pollution. This book presents the studies of some of the most prestigious international scientists and gathers them in three different sections: Wastewater Management and Reuse, Wastewater Treatment options and Risk Assessment. The result is an insightful analysis of waste water management, its treatments, and the processes that have been studied, optimized and developed so far to sustain our environment. Wastewater Reuse and Management represents a valuable resource to academic researchers, students, institutions, environmentalists, and anyone interested in environmental policies aimed at safeguarding both the quality and the quantity of water.

Sustainable Nanoscale Engineering - Gyorgy

Szekely 2019-09-18

Sustainable Nanoscale Engineering: From Materials Design to Chemical Processing presents the latest on the design of nanoscale materials and their applications in sustainable chemical production processes. The newest achievements of materials science, in particular nanomaterials, opened new opportunities for chemical engineers to design more efficient, safe, compact and environmentally benign processes. These materials include metal-organic frameworks, graphene, membranes, imprinted polymers, polymers of intrinsic microporosity, nanoparticles, and nanofilms, to name a few. Topics discussed include gas separation, CO₂ sequestration, continuous processes, waste valorization, catalytic processes, bioengineering, pharmaceutical manufacturing, supercritical CO₂ technology, sustainable energy, molecular imprinting, graphene, nature inspired chemical engineering, desalination, and more. Describes new, efficient and environmentally accepted processes for nanomaterials design Includes a large array of materials, such as metal-organic frameworks, graphene, imprinted polymers, and more Explores the contribution of these materials in the development of sustainable chemical processes

CO₂ Sequestration, Biofuels and

Depollution - Eric Lichtfouse 2015-02-06

Water is the driving force of all nature. This old quote from Leonardo da Vinci reminds us that without water life is simply not possible. As a consequence, water is probably the most important wealth for humanity. In spite of this, drinking water is still polluted by man-made toxicals gathered by waters in soils and the atmosphere. This book presents advanced methods to clean water and air. Chapters also focus on biofuels, greenhouse gases and genetically modified crops.

Hindered Settling in Non-Newtonian Fluids - P. H. T. Uhlherr 1975

Food Bioactives - Munish Puri 2017-04-07

This book focuses on various types of bioactive compounds, including secondary metabolites, oligosaccharides, polysaccharides, flavonoids, peptides/proteins, carotenoid pigments, quinones, terpenes, and polyunsaturated fatty

acids, and presents an overview of their nutraceutical activities. It covers the current status and future potential of food compounds, as well as extraction technologies for bioactives derived from plant, fungi and marine-derived bioactive agents. Finally, health-promoting effects of plant, fungi and marine-derived bioactive agents are discussed. Chapters come from top researchers in this area from around the globe. The volume caters to the needs of undergraduate and post-graduate students in the area of food biotechnology, food bioprocessing, biotechnology, food engineering, etc., and also contains information pertinent to researchers.

Drying in the Dairy Industry - Cécile Le Floch-Fouéré 2020-11-25

With more than 12M tons of dairy powders produced each year at a global scale, the drying sector accounts to a large extent for the processing of milk and whey. It is generally considered that 40% of the dry matter collected overall ends up in a powder form. Moreover, nutritional dairy products presented in a dry form (eg, infant milk formulae) have grown quickly over the last decade, now accounting for a large share of the profit of the sector. **Drying in the Dairy Industry: From Established Technologies to Advanced Innovations** deals with the market of dairy powders issues, considering both final product and process as well as their interrelationships. It explains the different processing steps for the production of dairy powders including membrane, homogenisation, concentration and agglomeration processes. The book includes a presentation of the current technologies, the more recent development for each of them and their impact on the quality of the final powders. Lastly, one section is dedicated to recent innovations and methods directed to more sustainable processes, as well as latter developments at lab scale to go deeper in the understanding of the phenomena occurring during spray drying. **Key Features:** Presents state-of-the-art information on the production of a variety of different dairy powders Discusses the impact of processing parameters and drier design on the product quality such as protein denaturation and viability of probiotics Explains the impact of drying processes on the powder properties such as

solubility, dispersibility, wettability, flowability, floodability, and hygroscopicity Covers the technology, modelling and control of the processing steps This book is a synthetic and complete reference work for researchers in academia and industry in order to encourage research and development and innovations in drying in the dairy industry.

Food Protein-based Colloids: Structure, Digestion, and Nutrients Delivery - Yuan Li 2022-08-17

Bioprocess Engineering - Pau Loke Show 2019-06-13

Bioprocess Engineering: Downstream Processing is the first book to present the principles of bioprocess engineering, focusing on downstream bioprocessing. It aims to provide the latest bioprocess technology and explain process analysis from an engineering point of view, using worked examples related to biological systems. This book introduces the commonly used technologies for downstream processing of biobased products. The covered topics include centrifugation, filtration, membrane separation, reverse osmosis, chromatography, biosorption, liquid-liquid separation, and drying. The basic principles and mechanism of separation are covered in each of the topics, wherein the engineering concept and design are emphasized. This book is aimed at bioprocess engineers and professionals who wish to perform downstream processing for their feedstock, as well as students.

Polymer Blends and Alloys - George P. Simon 2019-07-16

Distinguishing among blends, alloys and other types of combinations, clarifying terminology and presenting data on new processes and materials, this work present up-to-date and effective compounding techniques for polymers. It offers extensive analyses on the challenging questions that surround miscibility, compatibility, dynamic processing, interaction/phase behaviour, and computer simulations for predicting behaviours of polymer mixture and interaction.

Advances in Synthesis Gas: Methods, Technologies and Applications - Mohammad Reza Rahimpour 2022-10-28

Advances in Synthesis Gas: Methods,

Technologies and Applications: Syngas Production and Preparation is a collection of various chapters concerning many aspects of syngas production technologies, including common methods like gasification, steam/dry/autothermal reforming, membrane technology, etc., along with novel methods like plasma technology, micro-reactors, electrolysis processes as well as photocatalytic systems. In addition, different sources for producing syngas, including oil, crude oil, heavy oil, microalgae, black liquor, tar and bitumen, as well as municipal, agricultural, food, plastic, wood and cardboard wastes are described in detail. Introduces syngas characteristics and its properties Describes various methods and technologies for producing syngas Discusses syngas production from different roots and feedstocks

Treatment, Recycle and Disposal of Wastes - I. R. W. Johnston 1975

Multi-Objective Optimization in Chemical Engineering - Gade Pandu Rangaiah 2013-03-20
For reasons both financial and environmental, there is a perpetual need to optimize the design and operating conditions of industrial process systems in order to improve their performance, energy efficiency, profitability, safety and reliability. However, with most chemical engineering application problems having many variables with complex inter-relationships, meeting these optimization objectives can be challenging. This is where Multi-Objective Optimization (MOO) is useful to find the optimal trade-offs among two or more conflicting objectives. This book provides an overview of the recent developments and applications of MOO for modeling, design and operation of chemical, petrochemical, pharmaceutical, energy and related processes. It then covers important theoretical and computational developments as well as specific applications such as metabolic reaction networks, chromatographic systems, CO₂ emissions targeting for petroleum refining units, ecodesign of chemical processes, ethanol purification and cumene process design. *Multi-Objective Optimization in Chemical Engineering: Developments and Applications* is an invaluable resource for researchers and graduate students in chemical engineering as well as industrial

practitioners and engineers involved in process design, modeling and optimization.

Sphere Motion Through Inelastic Power-law Fluids - P. H. T. Uhlherr 1975

Introduction to Particle Technology - Martin J. Rhodes 2013-03-25

Particle technology is a term used to refer to the science and technology related to the handling and processing of particles and powders. The production of particulate materials, with controlled properties tailored to subsequent processing and applications, is of major interest to a wide range of industries, including chemical and process, food, pharmaceuticals, minerals and metals companies and the handling of particles in gas and liquid solutions is a key technological step in chemical engineering. This textbook provides an excellent introduction to particle technology with worked examples and exercises. Based on feedback from students and practitioners worldwide, it has been newly edited and contains new chapters on slurry transport, colloids and fine particles, size enlargement and the health effects of fine powders. Topics covered include: Characterization (Size Analysis) Processing (Granulation, Fluidization) Particle Formation (Granulation, Size Reduction) Storage and Transport (Hopper Design, Pneumatic Conveying, Standpipes, Slurry Flow) Separation (Filtration, Settling, Cyclones) Safety (Fire and Explosion Hazards, Health Hazards) Engineering the Properties of Particulate Systems (Colloids, Respirable Drugs, Slurry Rheology) This book is essential reading for undergraduate students of chemical engineering on particle technology courses. It is also valuable supplementary reading for students in other branches of engineering, applied chemistry, physics, pharmaceuticals, mineral processing and metallurgy. Practitioners in industries in which powders are handled and processed may find it a useful starting point for gaining an understanding of the behavior of particles and powders. Review of the First Edition taken from *High Temperatures - High pressures* 1999 31 243 - 251 ". This is a modern textbook that presents clear-cut knowledge. It can be successfully used both for teaching particle technology at universities and for individual

study of engineering problems in powder processing."

Mesoscale Modeling in Chemical Engineering - 2015-11-26

Focusing Mesoscales of Multiscale Problems in Chemical Engineering, a volume in the Advances in Chemical Engineering series provides readers with the personal views of recognized authorities who present assessments of the state-of-the-art in the field and help readers develop an understanding of its further evolution. Subjects covered in the book are not limited to the classical chemical engineering disciplines. Contributions connecting chemical engineering to related scientific fields, either providing a fundamental basis or introducing new concepts and tools, are encouraged. This volume aims to create a balance between well developed areas such as process industry, transformation of materials, energy, and environmental issues, and areas where applications of chemical engineering are more recent or emerging. Contains reviews by leading authorities in their respective areas Provides up-to-date reviews of the latest techniques in the modeling of catalytic processes Includes a broad mix of US and European authors, as well as academic/industrial/research institute perspectives Provides discussions on the connections between computation and experimental methods

Natural and Artificial Photosynthesis - Reza Razeghifard 2013-08-23

This technical book explores current and future applications of solar power as an unlimited source of energy that earth receives every day. Photosynthetic organisms have learned to utilize this abundant source of energy by converting it into high-energy biochemical compounds. Inspired by the efficient conversion of solar energy into an electron flow, attempts have been made to construct artificial photosynthetic systems capable of establishing a charge separation state for generating electricity or driving chemical reactions. Another

important aspect of photosynthesis is the CO₂ fixation and the production of high-energy compounds. Photosynthesis can produce biomass using solar energy while reducing the CO₂ level in air. Biomass can be converted into biofuels such as biodiesel and bioethanol. Under certain conditions, photosynthetic organisms can also produce hydrogen gas which is one of the cleanest sources of energy.

Fundamentals of Membrane Bioreactors - Bradley Ladewig 2016-10-22

This book provides a critical, carefully researched, up-to-date summary of membranes for membrane bioreactors. It presents a comprehensive and self-contained outline of the fundamentals of membrane bioreactors, especially their relevance as an advanced water treatment technology. This outline helps to bring the technology to the readers' attention, and positions the critical topic of membrane fouling as one of the key impediments to its more widespread adoption. The target readership includes researchers and industrial practitioners with an interest in membrane bioreactors. *Non-interacting Control of a Gas Flow Process* - P. L. Lee 1978

Chemical Engineering Faculty Directory 2003-2004 - D. R. Lloyd 2004-02

Pharmaceutical Blending and Mixing - P. J. Cullen 2015-07-20

Written in four parts, this book provides a dedicated and in-depth reference for blending within the pharmaceutical manufacturing industry. It links the science of blending with regulatory requirements associated with pharmaceutical manufacture. The contributors are a combination of leading academic and industrial experts, who provide an informed and industrially relevant perspective of the topic. This is an essential book for the pharmaceutical manufacturing industry, and related academic researchers in pharmaceutical science and chemical and mechanical engineering.