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Modern Drying Technology

Energy Savings

Volume 4



Modern Drying Technology Energy Savings

Theodoros Varzakas, Constantina Tzia



Modern Drying Technology Energy Savings:

Modern Drying Technology, Volume 4 Evangelos Tsotsas, Arun S. Mujumdar, 2011-12-15 This five volume series provides a comprehensive overview of all important aspects of modern drying technology concentrating on the transfer of cutting edge research results to industrial use Volume 4 deals with the reduction of energy demand in various drying processes and areas highlighting the following topics Energy analysis of dryers efficient solid liquid separation techniques osmotic dehydration heat pump assisted drying zeolite usage solar drying drying and heat treatment for solid wood and other biomass sources and sludge thermal processing

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Energy Efficiency in Industry Markus Blesl, Alois

Kessler, 2022-01-01 This book quantifies the potential for greater energy efficiency in industry on the basis of technology and sector related analyses Starting from the methodological fundamentals the first part discusses the electricity and heat based basic technologies and cross sectional processes on the basis of numerous application examples In addition to classic topics such as lighting and heat recovery the study also covers processes that have received less attention to date such as drying and painting The second part is devoted to energy intensive industries in particular metal production and processing the manufacture of the non metallic materials cement and glass and the chemical paper plastics and food industries Both parts are concluded by placing them in a larger energy and economic context The findings are condensed into checklists at many points and summarized in the overall view at the end to form generally applicable recommendations This book is a translation of the original German 2nd edition *Energieeffizienz in der Industrie* by Markus Blesl and Alois Kessler published by Springer

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Engineering Handbook, Two Volume Set Theodoros Varzakas, Constantina Tzia, 2014-12-12 Food Engineering Handbook Two Volume Set provides a stimulating and up to date review of food engineering phenomena It also addresses the basic and applied principles of food engineering methods used in food processing operations around the world Combining theory with a practical hands on approach this set examines the thermophysical properties *Food Engineering Handbook* Theodoros

Varzakas, Constantina Tzia, 2014-11-24 Food Engineering Handbook Food Process Engineering addresses the basic and applied principles of food engineering methods used in food processing operations around the world Combining theory with a practical hands on approach this book examines the thermophysical properties and modeling of selected processes such as chilling freezing and dehy

Pinch Analysis for Energy and Carbon Footprint Reduction Ian C. Kemp, Jeng Shiun Lim, 2020-08-08 Pinch Analysis for Energy and Carbon Footprint Reduction is the only dedicated pinch analysis and process integration guide covering a breadth of material from foundational knowledge to in depth processes Readers are introduced to the main concepts of pinch analysis the calculation of energy targets for a given process the pinch temperature and the golden rules of pinch based design to meet energy targets More advanced topics include the extraction of stream data necessary for a pinch analysis the design of heat exchanger networks hot and cold utility systems combined heat and power CHP refrigeration batch and time dependent situations and optimization of system operating conditions including distillation evaporation and solids drying This new edition offers tips and techniques for practical applications supported by several detailed case studies Examples stem from a wide range of industries including buildings and other non process situations This reference is a must have guide for chemical process engineers food and biochemical engineers plant engineers and professionals concerned with energy optimization including building designers Covers practical analysis of both new and existing processes Teaches readers to extract the stream data necessary for a pinch analysis and describes the targeting process in depth includes a downloadable spreadsheet to calculate energy targets Demonstrates how to achieve the targets by heat recovery utility system design and process change Updated to include carbon footprint water and hydrogen pinch developments in industrial applications and software site data reconciliation additional case studies and answers to selected exercises

Intermittent and Nonstationary Drying Technologies Azharul Karim, Chung-Lim Law, 2017-09-18 The first comprehensive book on intermittent drying Intermittent and Nonstationary Drying Technologies Principles and Applications demonstrates the benefits of this process and covers key issues including technologies effect of operating parameters mathematical modelling energy efficiency and product quality It discusses such topics as periodic drying conventional and

intermittent food drying processes and food quality relationship among intermittency of drying microstructural changes and food quality microwave assisted pulsed fluidized and spouted bed drying and cellular level water distribution Aimed at food engineers chemical product engineers pharmaceutical engineers and technologists plant design engineers and researchers and students in these areas this useful reference helps readers Flame Spray Drying Mariia Sobulska,Ireneusz Zbicinski,2021-09-22 Drying processes are among the most energy consuming operations in industry Flame spray drying FSD is a novel approach to reduce the energy supply needed for the spray drying process Flame Spray Drying Equipment Mechanism and Perspectives describes FSD technology and current developments in flame techniques and evaluates potential industrial implementation Details advantages of FSD in terms of energy consumption and reduced drying time Promotes applications of biofuels for the drying process Analyzes the FSD method from CFD modelling to product quality Evaluates potential safety and product degradation risks Provides examples of potential applications of the FSD technique in drying of different materials This book describes an important new technique that is useful to chemical and process engineering researchers professionals and students working with drying technologies CRC Handbook of Thermal Engineering Raj P. Chhabra,2017-11-08 The CRC Handbook of Thermal Engineering Second Edition is a fully updated version of this respected reference work with chapters written by leading experts Its first part covers basic concepts equations and principles of thermodynamics heat transfer and fluid dynamics Following that is detailed coverage of major application areas such as bioengineering energy efficient building systems traditional and renewable energy sources food processing and aerospace heat transfer topics The latest numerical and computational tools microscale and nanoscale engineering and new complex structured materials are also presented Designed for easy reference this new edition is a must have volume for engineers and researchers around the globe **Wood Structure and Properties '06** Stanislav Kurjatko,Jozef Kúdela,Rastislav Lagaña,2006 **Green Technology Book** ,2025-05-06 Energy is at the forefront of the third edition of the Green Technology Book This Executive Summary provides the background to the solutions for climate change showcased in the full report which presents a range of significant energy technology innovations across key sectors of society including households and communities in both urban and rural areas as well as essential services provided by supermarkets healthcare facilities and data centers **Mechatronics Engineering and Modern Information Technologies in Industrial Engineering** Fang Shao,Fen Jie Long,Jie Liang,Hai Hong Chen,Mei Ni Yuan,2015-01-13 Selected peer reviewed papers from the 2014 International Conference on Mechatronics Engineering and Modern Technologies in Industrial Engineering MEMTIE 2014 October 25 26 2014 Changsha Hunan China **Advanced Drying Technologies for Foods** Arun S Mujumdar,Hong-Wei Xiao,2019-06-19 The goal of all drying research and development is to develop cost effective innovative processes that yield high quality dried products with less energy consumption and reduced environmental impact With the literature on drying widely scattered Advanced Drying Technologies for Foods compiles under

one cover concise authoritative up to date assessments of modern drying technologies applied to foods This book assembles a number of internationally recognized experts to provide critical reviews of advanced drying technologies their merits and limitations application areas and research opportunities for further development Features Provides critical reviews of advanced drying technologies Discusses the merits and limitations of a variety of food drying technologies Explains drying kinetics energy consumption and quality of food products Reviews the principles and recent applications of superheated steam drying The first four chapters deal with recent developments in field assisted drying technologies These include drying techniques with the utilization of electromagnetic fields to deliver energy required for drying for example microwave drying radio frequency drying electrohydrodynamic drying and infrared radiation drying The remainder of this book covers a wide assortment of recently developed technologies which include pulse drying swell drying impinging stream drying and selected advances in spray drying The final chapter includes some innovative technologies which are gaining ground and are covered in depth in a number of review articles and handbooks and hence covered briefly in the interest completeness This book is a valuable reference work for researchers in academia as well as industry and will encourage further research and development and innovations in food drying technologies *Novel and Alternative Methods in Food Processing* N.

Veena, Megh R. Goyal, Ritesh B. Watharkar, 2023-08-04 This new volume explores emerging and advanced techniques in the food processing sector Novel food processing methods such as ultrasound processing microwave heating advanced drying methods and nonthermal technologies are discussed in detail The volume also covers the application of irradiation and encapsulation methods microbial valorizing and other novel food processing and preservation methods Mathematical modeling concepts and case studies are also included to illustrate applications of modeling techniques in food processing The volume promotes the understanding of the thermodynamics of food polymers structural design principles structural hierarchy and the steps involved in food structuring and structure measurement techniques **Modern Tendencies in**

Organic and Bioorganic Chemistry Gennadiĭ Efremovich Zaikov, 2008 This volume includes the following analyses factors regarding thermal and thermooxidative degradation of polyolefine nanocomposites modelling of catalytic complexes in the oxidation reactions modelling the kinetics of moisture adsorption by natural and synthetic polymers new trends achievements and developments on the effects of beam radiation structural behaviour of composite materials comparative evaluation of antioxidant properties synthesis properties and application of polymeric composites and nanocomposites photodegradation and light stabilisation of polymers wear resistant composite polymeric materials some macrokinetic phenomena transport phenomena in polymer matrixes liquid crystals flammability of polymeric materials and new flame retardants **Root,**

Tuber and Banana Food System Innovations Graham Thiele, Michael Friedmann, Hugo Campos, Vivian Polar, Jeffery W. Bentley, 2022-04-06 This open access book describes recent innovations in food systems based on root tuber and banana crops in developing countries These innovations respond to many of the challenges facing these vital crops linked to their

vegetative seed and bulky and perishable produce The innovations create value food jobs and new sources of income while improving the wellbeing and quality of life of their users Women are often key players in the production processing and marketing of roots tubers and bananas so successful innovation needs to consider gender These crops and their value chains have long been neglected by research and development hence this book contributes to filling in the gap The book features many outcomes of the CGIAR Research Program in Roots Tubers and Banana RTB which operated from 2012 21 encompassing many tropical countries academic and industry partners multiple crops and major initiatives It describes the successful innovation model developed by RTB that brings together diverse partners and organizations to create value for the end users and to generate positive economic and social outcomes RTB has accelerated the scaling of innovations to reach many end users cost effectively Though most of the book s examples and insights are from Africa they can be applied worldwide The book will be useful for decision makers designing policies to scale up agricultural solutions for researchers and extension specialists seeking practical ideas and for scholars of innovation

Handbook of Food Science, Technology, and Engineering - 4 Volume Set Y. H. Hui, Frank Sherkat, 2005-12-19 Advances in food science technology and engineering are occurring at such a rapid rate that obtaining current detailed information is challenging at best While almost everyone engaged in these disciplines has accumulated a vast variety of data over time an organized comprehensive resource containing this data would be invaluable to have The Advanced Computational Techniques for Heat and Mass Transfer in Food Processing Krunal M. Gangawane, Madhuresh Dwivedi, 2022-02-01 Computational methods have risen as a powerful technique for exploring the system phenomena and solving real life problems Currently there are two principle computational approaches for system analysis continuous and discrete In the continuous approach the governing equations can be obtained by applying the fundamental laws such as conservation of mass momentum and energy over an infinitesimal control volume On the other hand the discrete approach concentrates on mimicking the molecular movement within the system Both approaches have pros and cons and continuous development and improvement in the existing computational methods are ongoing Advanced Computational Techniques for Heat and Mass Transfer in Food Processing provides in a single source information on the use of methods based on numerical and computational analysis as applied in food science and technology It explores the use of various numerical computational techniques for the simulation of fluid flow and heat and mass transfer within food products Key Features Explores various numerical techniques used for modeling and validation Describes the knowhow of numerical and computational techniques for food process operations Covers a detailed numerical or computational approach of the principles of heat and mass transfer in the food processing operation Discusses the detailed computational simulation procedure of the food operation Recent years have witnessed a rapid development in the field of computational techniques owing to its abundant benefit to the food processing industry The relevance of advanced computational methods has helped in understanding the fundamental physics of thermal and hydrodynamic behavior that can

provide benefits to the food processing industry in numerous applications As a single information source for those interested in the use of methods based on numerical and computational analysis as applied in food science and technology this book will ably serve any food academician or researcher in learning the advanced numerical techniques exploring fluid flow crystallization and other food processing operations

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