

Edited by Evangelos Tsotsas
and Arun S. Mujumdar

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Modern Drying Technology

Energy Savings

Volume 4



Modern Drying Technology Energy Savings

**C. Anandharamakrishnan, S. Padma
Ishwarya**



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 **Modern Drying Technology, 5 Volume Set** Evangelos Tsotsas, Arun S.

Mujumdar, 2014-04-14 These five volume series provide a comprehensive overview of all important aspects of drying technology like computational tools at different scales Volume 1 modern experimental and analytical techniques Volume 2 product quality and formulation Volume 3 energy savings Volume 4 and process intensification Volume 5 Based on high level cutting edge results contributed by internationally recognized experts in the various treated fields this book series will help engineers achieve greater efficiency for an unavoidable yet vital process Located at the intersection of the two main approaches in modern chemical engineering product engineering and process systems engineering the series brings theory into practice in order to improve the quality of high value dried products save energy and cut the costs of drying processes Available in print as 5 Volume Set or as individual volumes Buy the Set and SAVE 30% Also available online For further information visit wileyonlinelibrary.com Individual volumes Volume 1 Modern Drying Technology Computational Tools at Different Scales Volume 1 Diverse model types for the drying of products and the design of drying processes short cut methods homogenized pore network and continuous thermo mechanical approaches are treated along with computational fluid dynamics population balances and process systems simulation tools Emphasis is put on scale transitions Volume 2 Modern Drying Technology Experimental Techniques Volume 2 Comprises experimental methods used in various industries and in research in order to design and control drying processes measure moisture and moisture distributions characterize particulate material and the internal micro structure of dried products and investigate the behavior of particle systems in drying equipment Key topics include acoustic levitation near infrared spectral imaging magnetic resonance imaging X ray tomography and positron emission tracking Volume 3 Modern Drying Technology Product Quality and Formulation Volume 3 Discusses how desired properties of foods biomaterials active pharmaceutical ingredients and fragile aerogels can be preserved during drying and how spray drying and spray fluidized bed processes can be used for particle formation and formulation Methods for monitoring product quality such as process analytical technology and modeling tools such as Monte Carlo simulations discrete particle modeling and neural networks are presented with real examples from industry and academia Volume 4 Modern Drying Technology Energy Savings 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 Volume 5 Process Intensification Volume 5 Dedicated to process intensification by more efficient distribution and flow of the drying medium foaming controlled freezing and the application of superheated steam infrared radiation microwaves power ultrasound and pulsed electric fields Process efficiency is treated in conjunction with the quality of sensitive products such as foods for a variety of hybrid and combined drying processes Modern Drying Technology, 5 Volume Set Evangelos Tsotsas, Arun S. Mujumdar, 2014-04-14 These five volume series provide a comprehensive overview of all important aspects of drying technology like computational tools at different scales Volume 1 modern experimental and analytical techniques Volume 2 product quality and formulation Volume 3 energy savings Volume 4 and process intensification Volume 5 Based on high level cutting edge results contributed by internationally recognized experts in the various treated fields this book series will help engineers achieve greater efficiency for an unavoidable yet vital process Located at the intersection of the two main approaches in modern chemical engineering product engineering and process systems engineering the series brings theory into practice in order to improve the quality of high value dried products save energy and cut the costs of drying processes Available in print as 5 Volume Set or as individual volumes Buy the Set and SAVE 30% Also available online For further information visit wileyonlinelibrary.com Individual volumes Volume 1 Modern Drying Technology Computational Tools at Different Scales Diverse model types for the drying of products and the design of drying processes short cut methods homogenized pore network and continuous thermo mechanical approaches are treated along with computational fluid dynamics population balances and process systems simulation tools Emphasis is put on scale transitions Volume 2 Modern Drying Technology Experimental Techniques Comprises experimental methods used in various industries and in research in order to design and control drying processes measure moisture and moisture distributions characterize particulate material and the internal micro structure of dried products and investigate the behavior of particle systems in drying equipment Key topics include acoustic levitation near infrared spectral imaging magnetic resonance imaging X ray tomography and positron emission tracking Volume 3 Modern Drying Technology Product Quality and Formulation Discusses how desired properties of foods biomaterials active pharmaceutical ingredients and fragile aerogels can be preserved during drying and how spray drying and spray fluidized bed processes can be used for particle formation and formulation Methods for monitoring product quality such as process analytical technology and modeling tools such as Monte Carlo simulations discrete particle modeling and neural networks are presented with real examples from industry and academia Volume 4 Modern Drying Technology Energy Savings 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 Volume 5 Process

Intensification Dedicated to process intensification by more efficient distribution and flow of the drying medium foaming controlled freezing and the application of superheated steam infrared radiation microwaves power ultrasound and pulsed electric fields Process efficiency is treated in conjunction with the quality of sensitive products such as foods for a variety of hybrid and combined drying processes Modern Drying Technology, Volume 5 Evangelos Tsotsas, Arun S. Mujumdar, 2014-01-10 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 5 is dedicated to process intensification by hybrid processes that combine convective or contact heat transfer with microwaves ultrasound or radiation Process intensification by more efficient choice distribution and flow of the drying medium such as impinging jet drying pulse combustion drying superheated steam drying drying in specially designed spouted beds are thoroughly discussed Moreover methods that favorably affect the process by changing the structure of the drying product e g foaming electroporation are treated Emphasis is placed on drying including freeze drying of sensitive materials such as foods biomaterials and pharmaceuticals Released Volumes of Modern Drying Technology Volume 1 Computational Tools at Different Scales ISBN 978 3 527 31556 7 Volume 2 Experimental Techniques ISBN 978 3 527 31557 4 Volume 3 Product Quality and Formulation ISBN 978 3 527 31558 1 Volume 4 Energy Savings ISBN 978 3 527 31559 8 Set Volume 1 5 ISBN 978 3 527 31554 3

Modern Drying Technology, Volume 1 Evangelos Tsotsas, Arun S. Mujumdar, 2011-02-10 This five volume handbook provides a comprehensive overview of all important aspects of modern drying technology including only advanced results In this first volume diverse model types for the drying of products and the design of drying processes short cut methods homogenized pore network and continuous thermo mechanical approaches are treated along with computational fluid dynamics population balances and process systems simulation tools Emphasis is put on scale transitions Modern Drying Technology, Volume 2 Evangelos Tsotsas, Arun S. Mujumdar, 2011-02-10 This five volume handbook provides a comprehensive overview of all important aspects of modern drying technology including only cutting edge results Volume 2 comprises experimental methods used in various industries and in research in order to design and control drying processes measure moisture and moisture distributions characterize particulate material and the internal micro structure of dried products and investigate the behavior of particle systems in drying equipment Key topics include acoustic levitation near infrared spectral imaging magnetic resonance imaging X ray tomography and positron emission tracking **Modern Drying Technology, Volume 3** Evangelos Tsotsas, Arun S. Mujumdar, 2011-08-29 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 3 discusses how desired properties of foods biomaterials active pharmaceutical ingredients and fragile aerogels can be preserved during drying and how spray drying and spray fluidized bed processes can be used for particle formation and formulation Methods for monitoring product quality such as process analytical technology

and modeling tools such as Monte Carlo simulations discrete particle modeling and neural networks are presented with real examples from industry and academia

Food 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

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 Verlag GmbH Germany part of Springer Nature in 2017 The translation was done with the help of artificial intelligence machine translation by the service DeepL com A subsequent human revision was done primarily in terms of content so that the book will read stylistically differently from a conventional translation Springer Nature works continuously to further the development of tools for the production of books and on the related technologies to support the authors

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

Handbook of Industrial Drying, Fourth Edition Arun S.

Mujumdar,2014-07-11 By far the most commonly encountered and energy intensive unit operation in almost all industrial sectors industrial drying continues to attract the interest of scientists researchers and engineers The Handbook of Industrial Drying Fourth Edition not only delivers a comprehensive treatment of the current state of the art but also serves as a consultative reference for streamlining industrial drying operations New to the Fourth Edition Computational fluid dynamic

simulation Solar impingement and pulse combustion drying Drying of fruits vegetables sugar biomass and coal
Physicochemical aspects of sludge drying Life cycle assessment of drying systems Covering commonly encountered dryers as well as innovative dryers with future potential the Handbook of Industrial Drying Fourth Edition not only details the latest developments in the field but also explains how improvements in dryer design and operation can increase energy efficiency and cost effectiveness 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 **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 *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

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 Handbook of Biomass Valorization for Industrial Applications Shahid Ul Islam, Aabid Hussain Shalla, Salman Ahmad Khan, 2022-01-05 HANDBOOK of BIOMASS VALORIZATION for INDUSTRIAL APPLICATIONS The handbook provides a comprehensive view of cutting edge research on biomass valorization from advanced fabrication methodologies through useful derived materials to current and potential application sectors Industrial sectors such as food textiles petrochemicals and pharmaceuticals generate massive amounts of waste each year the disposal of which has become a major issue worldwide As a result implementing a circular economy that employs sustainable practices in waste management is critical for any industry Moreover fossil fuels which are the primary sources of fuel in the transportation sector are also being rapidly depleted at an alarming rate Therefore to combat these global issues without increasing our carbon footprint we must look for renewable resources to produce chemicals and biomaterials In that context agricultural waste materials are gaining popularity as cost effective and abundantly available alternatives to fossil resources for the production of a variety of value added products including renewable fuels fuel components and fuel additives Handbook of Biomass Valorization for Industrial Applications investigates current and emerging feedstocks as well as provides in depth technical information on advanced catalytic processes and technologies that enable the development of all possible alternative energy sources The 22 chapters of this book comprehensively cover the valorization of agricultural wastes and their various uses in value added applications like energy biofuels fertilizers and wastewater treatment Audience The book is intended for a very broad audience working in the fields of materials sciences chemical engineering nanotechnology energy environment chemistry etc This book will be an invaluable reference source for the libraries in universities and industrial institutions government and independent institutes individual research groups and scientists working in the field of valorization of biomass **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

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

Furniture Manufacturing Jegatheswaran Ratnasingam,2022-02-17 div This volume covers all aspects of furniture manufacturing from a production engineering perspective It takes a step by step pedagogical approach dwelling on details which must be understood at every process as the furniture makes its way through the factory shop floor The content highlights the global industry and discusses furniture design and manufacturing systems The chapters also discuss every stage of the manufacturing process until the finished product is packaged There is also emphasis on strength design of furniture furniture testing environmental compliance and automation The contents also discuss the optimization of furniture manufacturing through a mathematical approach and highlights the current global trends impacting the furniture manufacturing industry especially the circular economy and Industry 4 0 This volume will a useful resource to those in academia and industry

Essentials and Applications of Food Engineering C.
Anandharamakrishnan,S. Padma Ishwarya,2019-03-15 Essentials Applications of Food Engineering provides a comprehensive understanding of food engineering operations and their practical and industrial utility It presents pertinent case studies

solved numerical problems and multiple choice questions in each chapter and serves as a ready reference for classroom teaching and exam preparations The first part of this textbook contains the introductory topics on units and dimensions material balance energy balance and fluid flow The second part deals with the theory and applications of heat and mass transfer psychrometry and reaction kinetics The subsequent chapters of the book present the heat and mass transfer operations such as evaporation drying refrigeration freezing mixing and separation The final section focuses on the thermal non thermal and nanotechnology based novel food processing techniques 3D food printing active and intelligent food packaging and fundamentals of CFD modeling Features Features 28 case studies to provide a substantial understanding of the practical and industrial applications of various food engineering operations Includes 178 solved numerical problems and 285 multiple choice questions Highlights the application of mass balance in food product traceability and the importance of viscosity measurement in a variety of food products Provides updated information on novel food processing techniques such as cold plasma 3D food printing nanospray drying electrospraying and electrospinning The textbook is designed for undergraduate and graduate students pursuing Food Technology and Food Process Engineering courses This book would also be of interest to course instructors and food industry professionals

The book delves into Modern Drying Technology Energy Savings. Modern Drying Technology Energy Savings is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Modern Drying Technology Energy Savings, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Modern Drying Technology Energy Savings
 - Chapter 2: Essential Elements of Modern Drying Technology Energy Savings
 - Chapter 3: Modern Drying Technology Energy Savings in Everyday Life
 - Chapter 4: Modern Drying Technology Energy Savings in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Modern Drying Technology Energy Savings. This chapter will explore what Modern Drying Technology Energy Savings is, why Modern Drying Technology Energy Savings is vital, and how to effectively learn about Modern Drying Technology Energy Savings.
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 4. In chapter 3, this book will examine the practical applications of Modern Drying Technology Energy Savings in daily life. The third chapter will showcase real-world examples of how Modern Drying Technology Energy Savings can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Modern Drying Technology Energy Savings in specific contexts. This chapter will explore how Modern Drying Technology Energy Savings is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Modern Drying Technology Energy Savings. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Modern Drying Technology Energy Savings.

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