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Energy Savings

Volume 4



Modern Drying Technology Energy Savings

Evangelos Tsotsas, Arun S. Mujumdar



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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

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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 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

Innovative Food Processing Technologies, 2020-08-18 Food process engineering a branch of both food science and chemical engineering has evolved over the years since its inception and still is a rapidly changing discipline While traditionally the main objective of food process engineering was preservation and stabilization the focus today has shifted to enhance health aspects flavour and taste nutrition sustainable production food security and also to ensure more diversity for the increasing demand of consumers The food industry is becoming increasingly competitive and dynamic and strives to develop high quality freshly prepared food products To achieve this objective food manufacturers are today presented with a growing array of new technologies that have the potential to improve or replace conventional processing technologies to deliver higher quality and better consumer targeted food products which meet many if not all of the demands of the modern consumer These new or innovative technologies are in various stages of development including some still at the R D stage and others that have been commercialised as alternatives to conventional processing technologies Food process engineering comprises a series of unit operations traditionally applied in the food industry One major component of these operations relates to the application of heat directly or indirectly to provide foods free from pathogenic microorganisms but also to enhance or intensify other processes such as extraction separation or modification of components The last three decades have also witnessed the advent and adaptation of several operations processes and techniques aimed at producing high quality foods with minimum alteration of sensory and nutritive properties Some of these innovative technologies have significantly reduced the thermal component in food processing offering alternative nonthermal methods Food Processing Technologies A Comprehensive Review Three Volume Set covers the latest advances in innovative and nonthermal processing such as high pressure pulsed electric fields radiofrequency high intensity pulsed light ultrasound irradiation and

new hurdle technology Each section will have an introductory article covering the basic principles and applications of each technology and in depth articles covering the currently available equipment and or the current state of development food quality and safety application to various sectors food laws and regulations consumer acceptance advancements and future scope It will also contain case studies and examples to illustrate state of the art applications Each section will serve as an excellent reference to food industry professionals involved in the processing of a wide range of food categories e g meat seafood beverage dairy eggs fruits and vegetable products spices herbs among others Conference Proceedings Society of Plastics Engineers. Technical Conference,1997 Modern Drying Technology, Volume 3 Evangelos Tsotsas,Arun S. Mujumdar,2011-08-04 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 Brewing with Sorghum Steve Carly Desobgo Zangue,2025-11-03 Brewing with Sorghum A Comprehensive Guide to Sorghum Beer offers a one stop shop for readers to learn about all aspects of this high potential product The entire process from malting sorghum to producing beer is addressed as well as the fundamentals and theories of the process the methods and procedures for malting sorghum and the enzymatic alterations that take place during the malting process The steps involved in making sorghum beer mashing saccharification boiling wort fermentation filtration packaging and storage are also covered as well as sensory evaluation and quality control methods Moving from background and foundational information into practical content this book will be useful to users of various levels of knowledge and familiarity with the topic Case studies and brand success stories as well as information on process improvement and best practices are included throughout Food and beverage researchers from academic industry and governmental settings will benefit from this resource Contextualizes sorghum in brewing with cultural relevance historical background and current research Guides readers through the sorghum beer production process from malting sorghum to packing and storage Highlights the significance of quality control and tackles key challenges in the brewing of sorghum beer Examines the most recent developments technological breakthroughs and market trends in the brewing of sorghum beer offering insights into the industry s future outlook **Modern Drying Technology, Volume 2** Evangelos Tsotsas,Arun S. Mujumdar,2009-02-09 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 Achievements and Developments in Manufacturing and Industry P.M. Diaz,K. Palanikumar,P. Ravi Kumar,2014-07-16 Selected peer reviewed papers from the International Conference on Recent Advances in Mechanical Engineering and Interdisciplinary Developments ICRAMID 2014 March 7 8 2014 Tamis Nadu India 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 *Technology, Employment, and Basic Needs in Food Processing in Developing Countries* J. Keddie,1980 Technological choice and transfer in food processing in developing countries an overview The choice of technology in food processing some case studies Private foreign investment and the transfer of technology in food processing A country case study food processing in Kenya Conclusions and policy implications Materials and Technologies of Modern Production Michaela Kostelecká,Mohd Fadhilzil Fasihi Mohd Aluwi,Hazrulrizawati Abd Hamid,Ahmed H. El-Shazly,Arief Cahyanto,Gema Gempita,2022-09-20 Special topic volume with invited peer reviewed papers only *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 **Asian Timber** ,1998

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