Drying of Loose and Particulate Materials

R. B. Keey

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Peter Niemz,Alfred Teischinger,Dick Sandberg

Drying Of Loose And Particulate Materials:

Drying Of Loose And Particulate Materials R. B. Keey,1991-09-01 This work furnishes students and practising engineers with a guide to the principles of industrial drying of particulate and loose solids and with advice on improved design procedures The book focuses on those processes considered by the author to be the most effective in the current field

Particulate Drying Sachin Vinayak Jangam,Chung Lim Law,Shivanand Shankarrao Shirkole,2023-07-17 In the process industry understanding the unit operation of particulate drying is imperative to yield products with desired properties and characteristics and to ensure process safety optimal energy efficiency and drying performance as well as low environmental impact There are many techniques and tools available which can cause confusion Particulate Drying Techniques and Industry Applications provides an overview of various particulate drying techniques their advantages and limitations industrial applications and simple design methods This book Covers advances in particulate drying and their importance in the process industry Highlights recent developments in conventional drying techniques and new drying technologies Helps readers gain insight into selecting the appropriate drying techniques for a particular product Summarizes various applications from a wide range of industries including chemical food pharmaceutical biotech polymer mineral and agro industries Projects future research trends and demands in particulate drying This book serves as a reference for process and plant engineers as well as researchers in the fields of particulate processing mineral processing food processing chemical engineering and mechanical engineering especially those involved in the selection of drying equipment for particulate solids and R D of drying of particulate materials Handbook of Food Engineering Practice Kenneth J. Valentas,Enrique Rotstein,R. Paul Singh,1997-07-23 Food engineering has become increasingly important in the food industry over the years as food engineers play a key role in developing new food products and improved manufacturing processes While other textbooks have covered some aspects of this emerging field this is the first applications oriented handbook to cover food engineering processes and manufacturing techniques A major portion of Handbook of Food Engineering Practice is devoted to defining and explaining essential food operations such as pumping systems food preservation and sterilization as well as freezing and drying Membranes and evaporator systems and packaging materials and their properties are examined as well The handbook provides information on how to design accelerated storage studies and determine the temperature tolerance of foods both of which are important in predicting shelf life The book also examines the importance of physical and rheological properties of foods with a special look at the rheology of dough and the design of processing systems for the manufacture of dough The final third of the book provides useful supporting material that applies to all of the previously discussed unit operations including cost profit analysis methods simulation procedures sanitary guidelines and process controller design The book also includes a survey of food chemistry a critical area of science for food engineers **Advances in Food Dehydration** Cristina Ratti,2008-11-21 Comprehensive Assessment of This Globally Relevant Practice As a centuries old food preservation method

dehydration technology has advanced significantly in the past decades as a result of new methods sophisticated analytical techniques and improved mathematical modeling Providing practical and expert insight from an international panel of expe

Powder Technology Hiroaki Masuda,Ko Higashitani,Hideto Yoshida,2006-11-29 Drawing from the third edition of the bestselling Powder Technology Handbook this book concentrates on handling methods and unit operations for powder and particle processing techniques Itexamines the purpose and factors involved in each process including planning equipment measurements and other necessary considerations This book c **Proceedings Of The 5th Asia-pacific Drying Conference, The (In 2 Volumes)** Guohua Chen,2007-08-07 This volume consists of the papers presented at the 5th Asia Pacific Drying Conference held 13 15 August 2007 China The articles feature the most recent progress of drying R D in the Asia Pacific region The proceedings is useful for graduate students researchers and professionals in the field of drying research and development Advances in Microwave and Radio Frequency Processing M. Willert-Porada,2007-05-17 Prometheus brought fire to mankind Arthur R von Hippel Dielectrics and Waves 1954 Our contribution There are only few areas of research and development of a comparable scientific and technological extension as microwave and high frequency processing Pr essing means not only application of radiation of 300 MHz to 300 GHz f quency to synthesis heating or ionisation of matter but also generation transm sion and detection of microwave and radio frequency radiation Microwave and high frequency sources positioned in the orbit are the foun tion of modern satellite telecommunication systems gyrotron tubes being pr ently developed in different countries all over the world will most probably be the major devices to open up a new era of energy supply to mankind be means of sion plasma Although initiated by military purposes during the Second World War RADAR Radio Detection and Ranging microwave and high frequency utilisation has spread over almost every important aspect of normal day life since than from individual mobile phones and kitchen microwave ovens to industrial food processing production of composites as sustainable building materials green chemistry medical applications and finally infrastructure installations like GPS and Galileo to name only few examples These different areas of microwave and high frequency radiation application can not be unified within one group of scientists and technologists There are s eral distinguished communities active e g in the area of telecommunication s tems strong microwaves for fusion plasma or plasma based materials processing *Handbook of Downstream Processing* E. Goldberg,2012-12-06 The last two decades have seen a phenomenal growth of the field of genetic or biochemical engineering and have witnessed the development and ultimately marketing of a variety of products typically through the manipulation and growth of different types of microorganisms followed by the recovery and purification of the associated products The engineers and biotechnologists who are involved in the full scale process design of such facilities must be familiar with the variety of unit operations and equipment and the applicable regulatory requirements This book describes current commercial practice and will be useful to those engineers working in this field in the design construction and operation of pharmaceutical and biotechnology plants It will be of help to

the chemical or pharmaceutical engineer who is developing a plant design and who faces issues such as Should the process be batch or continuous or a combination of batch and continuous How should the optimum process design be developed Should one employ a new revolutionary separation which could be potentially difficult to validate or use accepted technology which involves less risk Should the process be run with ingredients formulated from water for injection deionized water or even filtered tap water Should any of the separations be run in cold rooms or in glycol jacketed lines to minimize microbial growth where sterilization is not possible Should the process equipment and lines be designed to be sterilized in place cleaned in place or should every piece be broken down cleaned and autoclaved after every turn **Grains** Fuji Jian,Digvir S. Jayas,2021-12-23 Drying and storage are two significant unit operations in the food industry and are applied to both raw and processed products including cereal grains oilseeds legumes flour noodle coffee and cornstarch The common characteristic of these materials is that all of them are hygroscopic and contain water The hygroscopic properties are influenced by their physical properties which are influenced by their storage environments such as bins warehouses bunkers and temporary storage structures This book focuses on the storage and drying of bulk products in these storage structures On many occasions in our work with the grain storage and drying personnel especially our graduate students and industry contacts we found a book explaining the fundamental principles of grain storage and drying is needed Therefore the primary objective of this book is to help readers understand the fundamental principles of grain storage and drying and develop a well informed approach to solve grain storage and drying problems Technologies for grain storage and drying are advanced through research therefore literature review and background on each topic has also been included The book is generally intended for grain storage and drying students engineers and scientists As reflected in the contents which are presented at several levels of depth this book will serve well readers with different backgrounds and interests An effort has been made to allow for independent reading of different sections and to make a large part of this work accessible to a non mathematical audience The authors have combined their experience of teaching grain storage and drying to undergraduate and graduate students in the faculties of Agricultural and Food Sciences and Engineering Material in the book is organized into broad topic areas physical properties Chapters 1 and 2 grain temperature and moisture Chapters 2 and 6 water in biomaterials and relationship with its environment Chapter 3 fundamental principles of aeration drying and rewetting Chapter 4 and mathematical modelling of isotherm drying and re wetting Chapter 5 We hope our readers will benefit from the contents of the book for many decades **A Novel Approach to Sludge Treatment Using Microwave Technology** Eva Kocbek,2022-02-28 Sludge transportation costs can represent a large fraction of the expenses associated with municipal and faecal sludge management These costs can be mitigated through the use of thermal drying approaches to reduce the sludge volume This thesis described the application of a novel microwave based pilot scale unit as an alternative technology for the sanitisation and drying of sludge from municipal wastewater treatment plants and on site sanitation facilities The potential

economic benefits of volumetric heating moisture levelling and increased liquid and vapour migration from the interior to the surface of the product underpins the increasing interest in the use of microwave technology during sludge treatment processes According to the findings of this study these factors lead to faster processing times improved drying rates and a reduced physical footprint Furthermore microwave technology operates as a standalone treatment unit When coupled with mechanical dewatering techniques and membrane separation technology it can increase the reliability of the technology employed in the treatment of sludge while recovering valuable resources through an agricultural or thermochemical application such as co combustion The results of this work demonstrate the strong feasibility of applying microwave based technology within initiatives designed to protect the environment and safeguard public health **Handbook of Industrial Drying, Second Edition, Revised and Expanded** A. S. Mujumdar,1995-02-22 Drying of pharmaceutical products drying of biotechnologicl products drying of peat and biofuels druing of fibrous materials drying ofpulp and paper of wood and wood products drying in mineral proces sing modeling measurements and efficeiencies of infrared eryers for paper drying drying of coal drying of coated webs drying of polymersupeheated stema drying dryer feeder systems dryer emision control systems cost estimation methods for dryers energy aspects in drying safeth aspects of industrial dryers humidity measurements control of industrial dryers **Chemical Engineering Volume 2** J H Harker,J R Backhurst,J.F. Richardson,2013-10-22 Chemical Engineering Volume 2 covers the properties of particulate systems including the character of individual particles and their behaviour in fluids Sedimentation of particles both singly and at high concentrations flow in packed and fluidised beads and filtration are then examined The latter part of the book deals with separation processes such as distillation and gas absorption which illustrate applications of the fundamental principles of mass transfer introduced in Chemical Engineering Volume 1 In conclusion several techniques of growing importance adsorption ion exchange chromatographic and membrane separations and process intensification are described A logical progression of chemical engineering concepts volume 2 builds on fundamental principles contained in Chemical Engineering volume 1 and these volumes are fully cross referenced Reflects the growth in complexity and stature of chemical engineering over the last few years Supported with further reading at the end of each chapter and graded problems at the end of the book **Numerical Analysis of Heat and Mass Transfer in Porous Media** J.M.P.Q. Delgado,Antonio Gilson Barbosa Lima,Marta Vázquez da Silva,2012-06-25 The purpose of Numerical Analysis of Heat and Mass Transfer in Porous Media is to provide a collection of recent contributions in the field of computational heat and mass transfer in porous media The main benefit of the book is that it discusses the majority of the topics related to numerical transport phenomenon in engineering including state of the art and applications and presents some of the most important theoretical and computational developments in porous media and transport phenomenon domain providing a self contained major reference that is appealing to both the scientists researchers and the engineers At the same time these topics encounter of a variety of scientific and engineering disciplines such as chemical civil agricultural

mechanical engineering etc The book is divided in several chapters that intend to be a resume of the current state of knowledge for benefit of professional colleagues **Handbook of Industrial Drying** Arun S. Mujumdar,2014-07-11 This Fourth Edition book includes 12 new chapters covering computational fluid dynamic simulation solar impingement and pulse combustion drying drying of fruits vegetables sugar biomass and coal physicochemical aspects of sludge drying and life cycle assessment of drying systems Addressing commonly encountered dryers as well as innovative dryers with future potential the fully revised text 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 to increase energy efficiency and cost effectiveness Handbook of Postharvest Technology Amalendu Chakraverty,Arun S. Mujumdar,Hosahalli S. Ramaswamy,2003-01-22 The Handbook of Postharvest Technology presents methods in the manufacture and supply of grains fruits vegetables and spices It details the physiology structure composition and characteristics of grains and crops The text covers postharvest technology through processing handling drying and milling to storage packaging and distribution Additionally it examines cooling and preservation techniques used to maintain the quality and the decrease spoilage and withering of agricultural products

Springer Handbook of Wood Science and Technology Peter Niemz,Alfred Teischinger,Dick Sandberg,2023-04-01 This handbook provides an overview on wood science and technology of unparalleled comprehensiveness and international validity It describes the fundamental wood biology chemistry and physics as well as structure property relations of wood and wood based materials The different aspects and steps of wood processing are presented in detail from both a fundamental technological perspective and their realisation in industrial contexts The discussed industrial processes extend beyond sawmilling and the manufacturing of adhesively bonded wood products to the processing of the various wood based materials including pulp and paper natural fibre materials and aspects of bio refinery Core concepts of wood applications quality and life cycle assessment of this important natural resource are presented The book concludes with a useful compilation of fundamental material parameters and data as well as a glossary of terms in accordance with the most important industry standards Written and edited by a truly international team of experts from academia research institutes and industry thoroughly reviewed by external colleagues this handbook is well attuned to educational demands as well as providing a summary of state of the art research trends and industrial requirements It is an invaluable resource for all professionals in research and development and engineers in practise in the field of wood science and technology 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 Transport Phenomena in Multiphase Systems João M.P.Q. Delgado,Antonio Gilson Barbosa de Lima,2018-05-09 This book presents a collection of recent contributions in the field of transport phenomena in multiphase systems namely heat and mass transfer It discusses various topics related to the transport phenomenon in engineering including state of the art theory and applications and introduces some of the most important theoretical advances computational developments and technological applications in multiphase systems domain providing a self contained key reference that is appealing to scientists researchers and engineers alike At the same time these topics are relevant to a variety of scientific and engineering disciplines such as chemical civil agricultural and mechanical engineering *Drying Technologies in Food Processing* Xiao Dong Chen,Arun S. Mujumdar,2009-03-16 Drying is by far the most useful large scale operation method of keeping solid foods safe for long periods of time and is of fundamental importance in most sectors of food processing Drying operations need to be precisely controlled and optimized in order to produce a good quality product that has the highest level of nutrient retention and flavor whilst maintaining microbial safety This volume provides an up to date account of all the major drying technologies employed in the food industry and their underlying scientific principles and effects Various equipment designs are classified and described The impact of drying on food properties is covered and the micro structural changes caused by the process are examined highlighting their usefulness in process analysis and food design Key methods for assessing food properties of dried products are described and pre concentration and drying control strategies are reviewed Thermal hazards and fire explosion detection and prevention for dryers are discussed in a dedicated chapter Where appropriate sample calculations are included for engineers and technologists to follow The book is directed at food scientists and technologists in industry and research food engineers and drying equipment manufacturers Separation Technology John Garside,Institution of Chemical Engineers (Great Britain),1994 Separation technology is at the heart of engineering in the chemical and process industries This book takes the pulse of the technology and assesses its health for future use Recently separation technology has been under pressure to improve both the quality and diversity of products In response the condition of older technologies drying crystallization and distillation has been improved while newer ideas like adsorption and bioseparations have been brought rapidly into training Understanding of the underlying phenomena of separations argue the authors leads to better equipment design and more applications Newer processes depend on subtle differences in the molecular architecture of the components to be separated chiral molecules for example The way in which this is reflected at a larger scale is one of the themes of the book

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