

Handbook of Industrial Drying

Fourth Edition

Edited by
Arvin S. Mujumdar



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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 Industrial Drying, Second**

Edition - Two Volume Set Arun S. Mujumdar, 1995-02-22 *Handbook of Industrial Drying* Arun S. Mujumdar, 2020-09-29 First Published in 1995 this book offers a full guide into industrial drying for various materials Carefully compiled and filled with a vast repertoire of notes diagrams and references this book serves as a useful reference for students of medicine and other practitioners in their respective fields *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

Handbook of Industrial Drying Taylor & Francis Group, 2021-09-30 First Published in 1995 this book offers a full guide into industrial drying for various materials Carefully compiled and filled with a vast repertoire of notes diagrams and references this book serves as a useful reference for students of medicine and other practitioners in their respective fields

Handbook of Industrial Drying, Second Edition, Revised and Expanded A. S. Mujumdar, 1995-02-22 Drying of pharmaceutical products drying of biotechnological products drying of peat and biofuels drying of fibrous materials drying of pulp and paper of wood and wood products drying in mineral processing modeling measurements and efficiencies of infrared dryers for paper drying drying of coal drying of coated webs drying of polymers superheated steam drying dryer feeder systems dryer emission control systems cost estimation methods for dryers energy aspects in drying safety aspects of industrial dryers humidity measurements control of industrial dryers *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 Industrial Drying, Third Edition Arun S. Mujumdar, 2006-11-08 Still the Most Complete Up To Date and Reliable Reference in the Field Drying is a highly energy intensive operation and is encountered in nearly all industrial sectors With rising energy costs and consumer demands for higher quality dried products it is increasingly important to be aware of the latest developments in industrial drying technologies For two decades Mujumdar's industry standard Handbook of Industrial Drying has been the quintessential source of state of the art information in the field and this third edition is no exception New in the Third Edition Covering everything from the fundamentals of drying to the latest dryer types nearly two thirds of this edition comprises new material at the vanguard of research and industrial practice In addition to several rewritten and many more revised chapters new chapters cover such topics as Spreadsheet aided dryer design Indirect and pneumatic drying Drying of fish and seafood grain herbal medicines and tea Drying of nanosize products enzymes and textiles Dewatering and drying of wastewater treatment sludge Heat pump drying and industrial crystallization Solid liquid separation for pretreatment Providing important data along with the experience insight and practical know how contributed by experts from around the world the Handbook of Industrial Drying Third Edition remains the definitive reference to the complete spectrum of current and emerging industrial drying technologies **Industrial Heat**

Pump-Assisted Wood Drying Vasile Minea, 2018-08-06 This book discusses conventional as well as unconventional wood drying technologies It covers fundamental thermophysical and energetic aspects and integrates two complex thermodynamic systems conventional kilns and heat pumps aimed at improving the energy performance of dryers and the final quality of dried lumber It discusses advanced components kiln energy requirements modeling and software and emphasizes dryer heat pump optimum coupling control and energy efficiency Problems are included in most chapters as practical numerical examples for process and system components calculation and design The book presents promising advancements and R D challenges and future requirements **Essentials of Industrial Pharmacy** Saeed Ahmad Khan, 2022-05-05 Essentials of

Industrial Pharmacy is an attempt to comprehensively present in a single book various pharmaceutical processes and equipment that are frequently used for production of pharmaceutical dosage forms along with quality control tests of these dosage forms Pictorial graphical illustrations provide easier understanding of complex pharmaceutical concepts manufacturing processes of pharmaceutical dosage forms Since it is imperative for pharmacy students to have a clear understanding of the basic concepts used in development of drugs into suitable and stable dosage forms This book offers a wealth of information regarding basic aspects of pharmaceutical processes and dosage forms in a single book for undergraduate pharmacy students or science students with no pharmacy background intended to work in the pharmaceutical

Industry Drying Technology in Food Processing Seid Mahdi Jafari, Narjes Malekjani, 2023-05-08 Drying Technology in Food Processing in the Unit Operations and Processing Equipment in the Food Industry series explains the processing operations and equipment necessary for drying of different food products These processes and unit operations are very important in terms of qualitative properties and energy usage Divided into four sections Drying basics Different dryers in the food industry Application of drying in the food industry and Design control and efficiency of dryers all chapters emphasize experimental theoretical computational and or applications of food engineering principles and the relevant processing equipment Written by experts in the field of food engineering in a simple and dynamic way this book targets industrial engineers working in the field of food processing and within food factories to make them more familiar with drying unit operations Thoroughly explores novel applications of drying unit operations in food industries Strives to help improve the quality and safety of food products with drying technology Reviews alternatives for drying operations Powder Technology Handbook, Fourth Edition Ko Higashitani, Hisao Makino, Shuji Matsusaka, 2019-10-16 The Fourth Edition of Powder Technology Handbook continues to serve as the comprehensive guide to powder technology and the fundamental engineering processes of particulate technology while incorporating significant advances in the field in the decade since publication of the previous edition The handbook offers a well rounded perspective on powder technologies in gas and liquid phases that extends from particles and powders to powder beds and from basic problems to actual applications This new edition features fully updated and new chapters written by a team of internationally distinguished contributors All content has been updated and new sections added on Powder Technology Handbook provides methodologies of powder and particle handling technology essential to scientific researchers and practical industrial engineers It contains contemporary and comprehensive information on powder and particle handling technology that is extremely useful not only to newcomers but also to experienced engineers and researchers in the field of powder and particle science and technology *Drying in the Dairy Industry* Cécile Le Floch-Fouéré, Pierre Schuck, Gaëlle Tanguy, Luca Lanotte, Romain Jeantet, 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 **Freeze Drying of Pharmaceutical Products** Davide Fissore,Roberto Pisano,Antonello Barresi,2019-10-24

Freeze Drying of Pharmaceutical Products provides an overview of the most recent and cutting edge developments and technologies in the field focusing on formulation developments and process monitoring and considering new technologies for process development This book contains case studies from freeze dryer manufacturers and pharmaceutical companies for readers in industry and academia It was contributed to by lyophilization experts to create a detailed analysis of the subject matter organically presenting recent advancements in freeze drying research and technology It discusses formulation design process optimization and control new PAT monitoring tools multivariate image analysis process scale down and development using small scale freeze dryers use of CFD for equipment design and development of continuous processes This book is for industry professionals including chemical engineers and pharmaceutical scientists **Rotary Drum** Marcos Antonio de Souza Barrozo,Dyrney Araújo Dos Santos,Cláudio Roberto Duarte,Suellen Mendonça Nascimento,2023-08-08 Rotary Drum Fluid Dynamics Dimensioning Criteria and Industrial Applications provides in depth analysis of fluid dynamics in rotary drums In addition it provides analysis on the different configurations including nonconventional ones diverse industrial applications and comparison with competing dryer types as well as the modeling of these devices Covering important aspects of fluid dynamics in rotary drums which directly influence the drying performance the book also considers the significant cost of conventional rotary dryers It takes into account the scale up of rotary dryers and the control of product quality during processing which can leave the final product overdried and overheated wasting thermal energy The book serves as a useful reference for researchers graduate students and engineers in the field of drying technology **Heat and Mass Transfer in**

Drying of Porous Media Peng Xu,Agus P. Sasmito,Arun S. Mujumdar,2019-07-16 Heat and Mass Transfer in Drying of Porous Media offers a comprehensive review of heat and mass transfer phenomena and mechanisms in drying of porous materials It covers pore scale and macro scale models includes various drying technologies and discusses the drying dynamics of fibrous porous material colloidal porous media and size distributed particle system Providing guidelines for mathematical modeling and design as well as optimization of drying of porous material this reference offers useful information for researchers and students as well as engineers in drying technology food processes applied energy mechanical and chemical engineering **Advanced Process Engineering Control** Paul Serban Agachi,Mircea Vasile

Cristea, Alexandra Ana Csavdari, Botond Szilagyi, 2016-12-05 As a mature topic in chemical engineering the book provides methods problems and tools used in process control engineering It discusses process knowledge sensor system technology actuators communication technology and logistics design and construction of control systems and their operation The knowledge goes beyond the traditional process engineering field by applying the same principles to biomedical processes energy production and management of environmental issues The book explains all the determinations in the chemical systems or process systems starting from the beginning of the processes going through the intricate interdependency of the process stages analyzing the hardware components of a control system and ending with the design of an appropriate control system for a process parameter or a whole process The book is first addressed to the students and graduates of the departments of Chemical or Process Engineering Second to the chemical or process engineers in all industries or research and development centers because they will notice the resemblance in approach from the system and control point of view between different fields which might seem far from each other but share the same control philosophy

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

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

Thermal and Nonthermal Encapsulation Methods Magdalini Krokida, 2017-09-27 Encapsulation is a topic of interest across a wide range of scientific and industrial areas from pharmaceuticals to food and agriculture for the protection and controlled release of various substances during transportation storage and consumption Since encapsulated materials can be protected from external conditions encapsulation enhances their stability and maintains their viability This book offers a comprehensive review of conventional and modern methods for encapsulation It covers various thermal and nonthermal encapsulation methods applied across a number of industries including freeze drying spray drying spray chilling and spray cooling electrospinning electrospraying osmotic dehydration extrusion air suspension coating pan coating and vacuum drying The book presents basic fundamentals principles and applications of each method enabling the reader to gain extended knowledge The choice of the most suitable encapsulation technique is based on the raw materials the required size and the desirable characteristics of the final products

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