Xiao Dong Chen and Aditya Putranto

Modelling Drying Processes

A Reaction Engineering Approach

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Modelling Drying Processes A Reaction Engineering Approach

Xiao Dong Chen, Aditya Putranto

Modelling Drying Processes A Reaction Engineering Approach:

Modelling Drying Processes Xiao Dong Chen, Aditya Putranto, 2013-05-23 A comprehensive summary of the state of the art in the reaction engineering approach to drying processes including modelling experimentation and applications

Modelling Drying Processes Xiao Dong Chen, 2013 This comprehensive summary of the state of the art and the ideas behind the reaction engineering approach REA to drying processes is an ideal resource for researchers academics and industry practitioners Starting with the formulation modelling and applications of the lumped REA it goes on to detail the use of the REA to describe local evaporation and condensation and its coupling with equations of conservation of heat and mass transfer called the spatial REA to model non equilibrium multiphase drying Finally it summarises other established drying models discussing their features limitations and comparisons with the REA Application examples featured throughout help fine tune the models and implement them for process design and the evaluation of existing drying processes and product quality during drying Further uses of the principles of REA are demonstrated including computational fluid dynamics based modelling and further expanded to model other simultaneous heat and mass transfer processes **Modelling Drying Processes** Xiao Dong Chen, Aditya Putranto, 2013-05-23 This comprehensive summary of the state of the art and the ideas behind the reaction engineering approach REA to drying processes is an ideal resource for researchers academics and industry practitioners Starting with the formulation modelling and applications of the lumped REA it goes on to detail the use of the REA to describe local evaporation and condensation and its coupling with equations of conservation of heat and mass transfer called the spatial REA to model non equilibrium multiphase drying Finally it summarises other established drying models discussing their features limitations and comparisons with the REA Application examples featured throughout help fine tune the models and implement them for process design and the evaluation of existing drying processes and product quality during drying Further uses of the principles of REA are demonstrated including computational fluid dynamics based modelling and further expanded to model other simultaneous heat and mass transfer processes **Modeling Drying Processes** Xiao Dong Chen, 2013 **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 **Modeling and Flowsheet Simulation of Vibrated** Fluidized Bed Dryers (Band 18) Sören Ernst Lehmann, 2021-12-07 Fluidized bed dryers are the prime choice when it comes to drying of heat sensitive products commonly processed in the pharmaceutical and food industry As many products in these industries are ne and cohesive mechanical vibration of the dryer is used to enable or improve uidization Thus the goal of this thesis is the development of a uidized bed drying model that accounts for the in uence of mechanical vibration of the dryer as well as its implementation in an open source owsheet simulation framework Continuously operated uidized bed dryers under steady state conditions are the focus of this thesis The aim during model development and implementation is the broadest possible application range of the model A custom built vibrated uidized bed dryer is designed and constructed for comprehensive investigations of uidized bed hydrodynamics and drying kinetics Based on experimental investigations a semi empirical model for hydrodynamics of ne and cohesive powders is developed. The new model is combined with established models to allow for the owsheet simulation of uidized bed dryers for particles of all Geldart groups Additionally the in uence of vibration is accounted for Comprehensive validation experiments are performed for particles of different Geldart groups different dryer geometries and a variety of process parameters including mechanical vibration Comparison of model predictions with experimental data attributes high accuracy of predicted particle and gas properties Furthermore sensitivity analyses are conducted to identify potential weaknesses in underlying model assumptions Hereby the validity of underlying assumptions is con rmed and potential optimization parameters for different applications are identi ed The proposed model is unprecedented in terms of range of process parameters variety of particle properties and dryer geometries tested and found valid for Computational Fluid Dynamics Simulation of Spray Dryers Meng Wai Woo, 2016-11-03 Bridging the gap in understanding between the spray drying industry and the numerical modeler on spray drying Computational Fluid Dynamics Simulation of Spray Dryers An Engineer's Guide shows how to numerically capture important physical phenomena within a spray drying process using the CFD technique It includes numerical strategies to effectively describe these phenomena which are collated from research work and CFD industrial consultation in particular to the dairy industry Along with showing how to set up models the book helps readers identify the capabilities and uncertainties of the CFD technique for spray drying After briefly covering the basics of CFD the book discusses airflow modeling atomization and particle tracking droplet drying quality modeling agglomeration and wall deposition modeling and simulation validation techniques The book also answers questions related to common challenges in industrial applications Spray Drying Techniques for Food Ingredient Encapsulation C. Anandharamakrishnan, Padma Ishwarya S., 2015-10-12 Spray drying is a well established method for transforming liquid materials into dry powder form Widely used in the food and

pharmaceutical industries this technology produces high quality powders with low moisture content resulting in a wide range of shelf stable food and other biologically significant products Encapsulation technology for bioactive compounds has gained momentum in the last few decades and a series of valuable food compounds namely flavours carotenoids and microbial cells have been successfully encapsulated using spray drying Spray Drying Technique for Food Ingredient Encapsulation provides an insight into the engineering aspects of the spray drying process in relation to the encapsulation of food ingredients choice of wall materials and an overview of the various food ingredients encapsulated using spray drying The book also throws light upon the recent advancements in the field of encapsulation by spray drying i e nanospray dryers for production of nanocapsules and computational fluid dynamics CFD modeling Addressing the basics of the technology and its applications the book will be a reference for scientists engineers and product developers in the industry Handbook of Food Powders Bhesh Bhandari, Nidhi Bansal, Min Zhang, Pierre Schuck, 2023-11-11 Handbook of Food Powders Chemistry and Technology Second Edition covers current developments in food powder technology such as Microbial decontamination of food powders Gas and oil encapsulated powders and Plant based protein powders among other important topics Sections introduce processing and handling technologies for food powders focus on powder properties including surface composition rehydration and techniques to analyze the particle size of food powders and highlight specialty food powders such as dairy powders fruit and vegetable powders and coating foods with powders Edited by a team of international experts in the field this book continues to be the only quality reference on food powder technology available for the audiences of professionals in the food powder production and handling industries It is also ideal for development and guality control professionals in the food industry who use powders in foods and for researchers scientists and academics interested in the field Introduces six new chapters that incorporate the current developments in food powder technology Examines powder properties including surface composition shelf life and techniques used to examine particle size Focuses on specialty powders such as dairy infant formulas powdered egg fruit and vegetable and culinary and specialty products Frontiers in Spray Drying Nan Fu, Jie Xiao, Meng Wai Woo, Xiao Dong Chen, 2020-08-13 This book covers the latest developments and advances in spray drying and describes how they impact the basic aspect of designing and operating spray dryers This generic approach allows users to understand how different basic aspects of spray drying have advanced Users will learn how to apply these advances in their own specific spray drying applications This book also discusses the handling and control of spray dried products Includes the latest techniques for use in the design and operation of spray drying operations Covers the basic operations of spray drying that can be applied to different applications of spray drying Discusses the handling and control of spray dried product qualities from a general approach allowing readers to tailor these approaches to their own specific products This book is aimed at professionals researchers and academics working in the fields of food chemical pharmaceutical and industrial engineering

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