

# Freeze Drying and Advanced Food Technology

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# Freeze Drying And Advanced Food Technology

Tse-Chao Hua, Bao-Lin Liu, Haimei Zhang

#### Freeze Drying And Advanced Food Technology:

Freeze Drying and Advanced Food Technology Samuel A. Goldblith, Louis Rey, W. W. Rothmayr, 1975 Food **Process Engineering and Technology** Zeki Berk, 2013-06-08 The past 30 years have seen the establishment of food engineering both as an academic discipline and as a profession Combining scientific depth with practical usefulness this book serves as a tool for graduate students as well as practicing food engineers technologists and researchers looking for the latest information on transformation and preservation processes as well as process control and plant hygiene topics Strong emphasis on the relationship between engineering and product quality safety Links theory and practice Considers topics in light of factors such as cost and environmental issues **Freeze-Drying** Georg-Wilhelm Oetjen, 2008-09-26 Many modern medicines for example blood derivatives vaccines cytostatic drugs and antibiotics but also soluble coffee have one thing in common freeze drying is the best method of transforming the perishable substances into a form that keeps well and allows the substances to be stored before being returned almost to their natural state This book describes the rules of freeze drying The critical process data is not just presented theoretically but explained with regard to practical examples Application of freeze drying processes is the main emphasis of this book Many years of experience in the freeze drying business allow the author to present valuable criteria for the selection of laboratory or industrial plants Evaluation of the latest publications quarantees state of the art coverage of information Even modern topics e g validation of processes or estimation of acceptable variances from preset values are taken into account These valuable tips make the book indispensable for everybody working in the freeze drying business Handbook of Food Process Design, 2 Volume Set Jasim Ahmed, Mohammad Shafiur Rahman, 2012-05-21 In the 21st Century processing food is no longer a simple or straightforward matter Ongoing advances in manufacturing have placed new demands on the design and methodology of food processes A highly interdisciplinary science food process design draws upon the principles of chemical and mechanical engineering microbiology chemistry nutrition and economics and is of central importance to the food industry Process design is the core of food engineering and is concerned at its root with taking new concepts in food design and developing them through production and eventual consumption Handbook of Food Process Design is a major new 2 volume work aimed at food engineers and the wider food industry Comprising 46 original chapters written by a host of leading international food scientists engineers academics and systems specialists the book has been developed to be the most comprehensive guide to food process design ever published Starting from first principles the book provides a complete account of food process designs including heating and cooling pasteurization sterilization refrigeration drying crystallization extrusion and separation Mechanical operations including mixing agitation size reduction extraction and leaching processes are fully documented Novel process designs such as irradiation high pressure processing ultrasound ohmic heating and pulsed UV light are also presented Food packaging processes are considered and chapters on food quality safety and commercial imperatives portray

the role process design in the broader context of food production and consumption Freeze-Drying/Lyophilization of Pharmaceutical and Biological Products Louis Rey, 2016-04-19 Freeze drying or lyophilization is a well established technology used in the preservation of numerous pharmaceutical and biological products This highly effective dehydration method involves the removal of water from frozen materials via the direct sublimation of ice In recent years this process has met with many changes as have the regulatio *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 Freeze-Drying/Lyophilization Of Pharmaceutical & Biological Products, Revised and Expanded Louis Rey, Joan C. May, 2004-01-21 Thoroughly acquainting the reader with freeze drying fundamentals Freeze Drying Lyophilization of Pharmaceutical and Biological Products Second Edition carves practical guidelines from the very latest theoretical research technologies and industrial procedures It delineates the best execution of steps from closure preparation and regulatory control of products to equipment sterilization and process validation With 13 new chapters providing state of the art information the book unveils innovations currently advancing the field including LYOGUARD packaging for bulk freeze drying and the irradiation of pharmaceutical and biological products Freeze Drving and Advanced Food Technology s. a. Goldblith (+and others),1975 Freeze-Drying of Pharmaceutical and Food Products Tse-Chao Hua, Bao-Lin Liu, Haimei Zhang, 2010-07-30 Freeze drying is an important preservation technique for heat sensitive pharmaceuticals and foods Products are first frozen then dried in a vacuum at low temperature by sublimation and desorption rather than by the application of heat The resulting items can be stored at room temperature for long periods This informative text addresses both principles and practice in this area The first chapter introduces freeze drying The authors then review the fundamentals of the technique heat mass transfer analyses modelling of the drying process and the equipment employed Further chapters focus on freeze drying of food freeze drying of pharmaceuticals and the protective agents and additives applied The final chapter covers the important subjects of disinfection sterilization and process

validation Freeze drying of pharmaceutical and food products is an essential reference for food pharmaceutical and refrigeration engineers and scientists with an interest in preservation techniques It will also be of use to students in these fields Addresses the principles and practices used in this important preservation technique Explains the fundamentals of heat mass transfer analysis modelling and the equipment used Discusses the importance of disinfection sterilization and process validation Freeze-Drying Peter Haseley, Georg-Wilhelm Oetjen, 2018-05-07 This completely updated and enlarged third edition of the classic text adopts a practical approach to describe the fundamentals of freeze drying backed by many explanatory examples Following an introduction to the fundamentals the book goes on to discuss process and plant automation as well as methods to transfer pilot plant qualifications and process data to production An entire section is devoted to a large range of different pharmaceutical biological and medical products New to this edition are chapters on antibodies freeze dry microscopy TEMPRIS microwave freeze drying spray freeze drying and PAT Their many years of experience in freeze drying enable the authors to supply valuable criteria for the selection of laboratory pilot and production plants discussing the advantages drawbacks and limitations of different plant designs Alongside guidelines for the evaluation Handbook of Food Science, and qualification of plants and processes the author also includes a troubleshooting section Technology, and Engineering Yiu H. Hui,2006 Food Process Engineering Explained Anagh Deshpande, 2024-12-15 Food Process Engineering Explained addresses the growing need for cleaner and healthier food in response to a rising population The book explores recent advancements in the food processing industry and technology covering production processing packaging storage and cooking techniques to ensure and preserve food quality taste and aesthetic value We provide extensively researched techniques processes and recent developments as well as the challenges faced by the food processing industry. The book includes graphs charts tables and arithmetical problems to offer a comprehensive understanding of the various stages and parts of the food processing industry. One unique feature of our book is its dual focus on both the scientific and economic aspects of food processing By examining each process from these perspectives we offer insights into the economic impact of the industry This book is perfect for anyone interested in delving deeper into food processing providing valuable knowledge about the technologies and methods that drive the industry Frozen Food Science and Technology Judith A. Evans, 2009-01-21 This book provides a comprehensive source of information on freezing and frozen storage of food Initial chapters describe the freezing process and provide a fundamental understanding of the thermal and physical processes that occur during freezing Experts in each stage of the frozen cold chain provide within dedicated chapters guidelines and advice on how to freeze food and maintain its quality during storage transport retail display and in the home Individual chapters deal with specific aspects of freezing relevant to the main food commodities meat fish fruit and vegetables Legislation and new freezing processes are also covered Frozen Food Science and Technology offers in depth knowledge of current and emerging refrigeration technologies along the entire frozen food chain enabling readers

to optimise the quality of frozen food products It is aimed at food scientists technologists and engineers within the frozen food industry frozen food retailers and researchers and students of food science and technology Food Engineering Matcel Loncin, 2012-12-02 Food Engineering Principles and Selected Applications explores the principles of food engineering that are needed for resolving problems of food processing and preservation This book is divided into 11 chapters that provide numerous effective examples and discussions of unique aspects of the food industry which utilize these principles This book discusses first the boiling heat transfer and the multi effect principle for evaporators as well as the application of this principle to the special problems involved in evaporation of liquid foods. The subsequent chapters cover the principles of fluid dynamics and axial dispersion The discussion then shifts to the effect of residence time distribution on continuous sterilization processes The concluding chapters examine the concepts of water activity and its effect upon various reactions important to food processing and quality This book is intended for both students and practicing food engineers and technologists Biotechnology and Food Process Engineering Henry G. Schwartzberg, M. A. Rao, 1990-05-23 Biotechnology and its implication for the future introduction to bio reactor engineering bioreactor considerations for producing flavors and pigments from plant tissue culture membrane bioreactors enzime processes food freeze concentration supercritical fluid extraction drying of foods aseptic processing of foods encapsulation and con trolled release do food components extrusion of foods developments in microwave food processing robotics in food processing integration of computers in food processing

Food Properties Handbook M. Shafiur Rahman, 2009-05-28 Dramatically restructured more than double in size the second edition of the Food Properties Handbook has been expanded from seven to 24 chapters In the more than ten years since the publication of the internationally acclaimed and bestselling first edition many changes have taken place in the approaches used to solve problems in food preservat Flavourings Erich Ziegler, Herta Ziegler, 2008-07-11 The demand for flavourings has been constantly increasing over the last years as a result of the dramatic changes caused by a more and more industrialised life style The consumer is drawn to interesting healthy pleasurable exciting or completely new taste experiences This book draws on the expert knowledge of nearly 40 contributors with backgrounds in both industry and academia and provides a comprehensive insight into the production processing and application of various food flavourings Established flavours produced commercially are summarized on a large scale Methods of quality control and quality management are discussed in detail The authors also focus on conventional and innovative analytical methods employed in this field and last but not least on toxicological legal and ethical aspects Up to date references to pertinent literature and an in depth subject index complete the book Bibliography of Agriculture ,1976 *Operations in Food Refrigeration* Rodolfo H. Mascheroni, 2012-06-06 The final quality of a food product is impacted heavily by preservation technologies such as chilling freezing and freeze drying as well as the numerous pretreatments that are routinely applied to foods Adequate design and implementation of each of these treatments are critical to ensuring the integrity of the final food product the

productivity of the equipment and reduced operation costs Operations in Food Refrigeration explores the fundamental issues involved in heat and mass transfer in food refrigeration and examines aspects of other operations applied to chilled or frozen foods Following an overview of basic concepts and general calculation procedures involved in cooling freezing thawing and freeze drying the book discusses Sizing peeling cutting sorting and blanching fruits and vegetables Pretreatments for meats including tenderization electrical stimulation portioning curing and smoking Pretreatments for fish and other seafood Processing of poultry Air and osmotic partial dehydration infusion of special nutrients and the concentration of juices Traditional chilling and freezing methods Special precooling and freezing techniques The effects of thawing on food factors that influence the choice and design of thawing processes and various thawing methods Freeze drying equipment Each chapter is written by a recognized specialist and can serve as a stand alone resource for the particular topic Several chapters present case studies that can be used for developing processes or in teaching applications Processors researchers and educators in the food industry will find this volume to be an invaluable reference for a host of food operations Food Structure J. R. Mitchell, J. M. V. Blanshard, 1987-01-01 The book considers fundamental concepts and discusses dispersed food systems such as gels emulsions and foams and chemical properties of food polymers It examines structured food systems such as fibrous and non fibrous systems and concludes with and evaluation of food structure by microscopic rheologic and sensor means

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