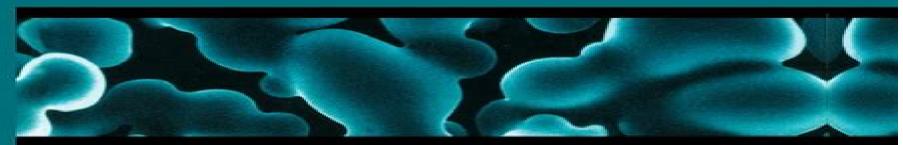


MICROSTRUCTURAL PRINCIPLES OF FOOD PROCESSING AND ENGINEERING

SECOND EDITION



JOSE MIGUEL AGUILERA DAVID W. STANLEY



Microstructural Principles Of Food Processing And Engineering Food Engineering Series

Mohammad U.H. Joardder, Monjur Mourshed, Mahadi Hasan Masud

Microstructural Principles Of Food Processing And Engineering Food Engineering Series:

Microstructural Principles of Food Processing and Engineering José Miguel Aguilera, David W. Stanley, 1999-09-30 An Aspen Food Engineering Series Book This new edition provides a comprehensive reference on food microstructure emphasizing its interdisciplinary nature rooted in the scientific principles of food materials science and physical chemistry The book details the techniques available to study food microstructure examines the microstructure of basic food components and its relation to quality and explores how microstructure is affected by specific unit operations in food process engineering Descriptions of a number of food related applications provide a better understanding of the complexities of the microstructural approach to food processing Color plates Microstructural Principles of Food Processing & Engineering José Miguel Aguilera, David W. Stanley, 1990 Handbook of Food Processing Equipment George Saravacos, Athanasios E. Kostaropoulos, 2015-12-29 This text covers the design of food processing equipment based on key unit operations such as heating cooling and drying In addition mechanical processing operations such as separations transport storage and packaging of food materials as well as an introduction to food processes and food processing plants are discussed Handbook of Food Processing Equipment is an essential reference for food engineers and food technologists working in the food process industries as well as for designers of process plants The book also serves as a basic reference for food process engineering students The chapters cover engineering and economic issues for all important steps in food processing This research is based on the physical properties of food the analytical expressions of transport phenomena and the description of typical equipment used in food processing Illustrations that explain the structure and operation of industrial food processing equipment are presented style font size 13 3333330154419px The materials of construction and fabrication of food processing equipment are covered here as well as the selection of the appropriate equipment for various food processing operations Mechanical processing equipment such as size reduction size enlargement homogenization and mixing are discussed Mechanical separations equipment such as filters centrifuges presses and solids air systems plus equipment for industrial food processing such as heat transfer evaporation dehydration refrigeration freezing thermal processing and dehydration are presented Equipment for novel food processes such as high pressure processing are discussed The appendices include conversion of units selected thermophysical properties plant utilities and an extensive list of manufacturers and suppliers of food equipment Fruit Manufacturing Jorge E. Lozano, 2006-11-28 Emphasizing the products rather than the processes this is the first book to encompass quality changes during processing and storage of fruit in the food industry It presents the influence on a fruit product signality in relation to the different processing methods from freezing to high temperature techniques It also discusses the origin of deterioration kinetics of negative reactions and methods for inhibition and control of the same **Food Engineering: Integrated Approaches** Gustavo F. Gutiérrez-Lopez, Jorge Welti-Chanes, Efrén Parada-Arias, 2008-02-29 This book presents a significant and up to date review of

various integrated approaches to food engineering Distinguished food engineers and food scientists from key institutions worldwide have contributed chapters that provide a deep analysis of their particular subjects Emerging technologies and biotechnology are introduced and the book discusses predictive microbiology packing materials for foods and biodegradable films This book is mainly directed to academics and to undergraduate and postgraduate students in food engineering and food science and technology who will find a selection of topics **Rheology of Fluid and Semisolid Foods: Principles and Applications** M. A. Andy Rao, 2010-04-28 The second edition of this fascinating work examines the concepts needed to characterize rheological behavior of fluid and semisolid foods It also looks at how to use various ingredients to develop desirable flow properties in fluid foods as well as structure in gelled systems It covers the crucially important application of rheology to sensory assessment and swallowing as well as the way it can be applied to handling and processing foods All the chapters have been updated to help readers better understand the importance rheological properties play in food science and utilize these properties to characterize food **Food Powders** Enrique Ortega-Rivas, Pablo Juliano, Hong Yan, 2006-04-04 This useful reference is the first book to address key aspects of food powder technology It assembles organized and updated information on the physical properties production and functionality of food powder previously unavailable in book form

Pulsed Electric Fields Technology for the Food Industry Javier Raso-Pueyo, Volker Heinz, 2010-04-30 In an attempt to improve or replace existing food processing methods several novel technologies have been investigated Some of these emerging technologies have become alternative means of developing new foods or improving the safety and quality of existing ones while reducing energy consumption for the food industry Among all emerging nonthermal technologies high intensity pulsed electric fields PEF is one of the most appealing due to its short treatment times and reduced heating effects Its capability to enhance extraction processes and to inactivate microorganisms at temperatures that do not cause any deleterious effect on flavor color or nutrient value of foods opens interesting possibilities for the food processing industry Pulsed Electric Fields Technology for the Food Industry presents the information accumulated on PEF during the last 15 years by experienced microbiologists biochemists food technologists and electrical and food engineers It offers to anyone interested in this subject a comprehensive knowledge in this field Ultra High Pressure Treatment of Foods Marc E.G. Hendrickx, Dietrich Knorr, 2012-12-06 During the past decade consumer demand for convenient fresh like safe high quality food products has grown The food industry has responded by applying a number of new technologies including high hydrostatic pressure for food processing and preservation In addition food scientists have demonstrated the feasibility of industrial scale high pressure processing This technology is of specific interest to the food industry because it provides an attractive alternative to conventional methods of thermal processing which often produce undesirable changes in foods and hamper the balance between high quality color flavor and functionality and safety In addition it offers opportunities for creating new ingredients and products because of the specific actions of high pressure on bio logical materials and food

constituents It allows food scientists to redesign exist ing processes and to create entirely new ones using high pressure technology alone or in combination with conventional processes e g pressure temperature combinations Researchers have investigated high pressure processing for the past century Scientists such as Hite and Bridgman did pioneering work at the turn of the 20th century Then during the 1980s and 1990s there was a large effort to investigate the effects of high pressure on biological materials particularly foods The initial research activities in the late 1980s and early 1990s focused on exploratory activities in the food area Electronic Irradiation of Foods R. B. Miller, 2006-12-26 Food irradiation the use of ionizing radiation to destroy harmful biological organism in food is a safe proven process that has many useful applications It has been endorsed by numerous health organizations and has now been approved for many applications by governments around the world Electronic Irradiation of Foods describes all the key aspects of electron accelerator technology in detail It emphasizes the physical science and technology aspects of food irradiation using machine sources of ionizing radiation The book provides significant technical depth for interested workers and present descriptive introductory material that should help demystify technology for businessmen to make informed choices regarding important investments decisions Introductory chapters summarize the effects of ionizing radiation on biological organisms and the organic compounds comprising foods and give an overview of the food irradiation process Subsequent chapters cover the details of the electron beam and x ray energy deposition electron accelerator technologies beam scanning systems material handling systems shielding design and process control considerations Important appendices cover radiation dosimetry induced radioactivity Food Materials Science Jose Miguel Aguilera, Peter J. Lillford, 2007-12-06 Foods are ingested and and ozone generation become part of our body This book describes the science and procedure behind the materials in foods that impart their desirable properties. The book can serve as a text in a course in food materials science at the senior or graduate level or as a supplemental text in an advanced food technology course It cac also serve as a reference book for professionals in the food Advances in Technologies for Producing Food-relevant Polyphenols Jose Cuevas Valenzuela, Jose Rodrigo industry Vergara-Salinas, Jose Ricardo Perez-Correa, 2016-09-19 The growing concern for human wellbeing has generated an increase in the demand for polyphenols secondary plant metabolites that exhibit different bioactive properties. This increasing demand is mainly due to the current applications in the food industry where polyphenols are considered essential for human health and nutrition Advances in Technologies for Producing Food relevant Polyphenols provides researchers scientists engineers and professionals involved in the food industry with the latest methodologies and equipment useful to extract isolate purify and analyze polyphenols from different available sources such as herbs flora vegetables fruits and agro industrial wastes Technologies currently used to add polyphenols to diverse food matrices are also included This book serves a reference to design and scale up processes to obtain polyphenols from different plant sources and to produce polyphenol rich foods with bioactive properties e q antioxidant antibacterial antiviral anticancer properties of interest for human health and wellbeing

Microstructure of Dairy Products Mamdouh El-Bakry, Antonio Sanchez, Bhavbhuti M. Mehta, 2018-07-13 Provides the most recent developments in microscopy techniques and types of analysis used to study the microstructure of dairy products This comprehensive and timely text focuses on the microstructure analyses of dairy products as well as on detailed microstructural aspects of them Featuring contributions from a global team of experts it offers great insight into the understanding of different phenomena that relate to the functional and biochemical changes during processing and subsequent storage Structured into two parts Microstructure of Dairy Products begins with an overview of microscopy techniques and software used for microstructural analyses It discusses in detail different types of the following techniques such as light microscopy including bright field polarized and confocal scanning laser microscopy and electron microscopy mainly scanning and transmission electron microscopy The description of these techniques also includes the staining procedures and sample preparation methods developed Emerging microscopy techniques are also covered reflecting the latest advances in this field Part 2 of the book focuses on the microstructure of various dairy foods dividing each into sections related to the microstructure of milk cheeses yogurts powders and fat products ice cream and frozen dairy desserts dairy powders and selected traditional Indian dairy products In addition there is a review of the localization of microorganism within the microstructure of various dairy products The last chapter discusses the challenges and future trends of the microstructure of dairy products Presents complete coverage of the latest developments in dairy product microscopy techniques Details the use of microscopy techniques in structural analysis An essential purchase for companies researchers and other professionals in the dairy sector Microstructure of Dairy Products is an excellent resource for food scientists technologists and chemists and physicists rheologists and microscopists who deal in dairy products and Biomass Feedstocks by Pulsed Electric Energy Eugene Vorobiev, Nikolai Lebovka, 2020-04-10 This book presents a comprehensive range of research on pulsed electric energy used in food processing including sections on the fundamentals of electroporation and important techniques for the estimation of electroporation effects in various foods and biomass feedstocks By focusing on application over theory this book presents researchers with practical steps for processing techniques such as solid liquid extraction pressing osmotic dehydration drying freezing and cooking Special interest is given to the selective recovery and extraction of sugar inulin starch proteins polysaccharides polyphenols pigments flavor compounds phytochemicals and other of high value components from food biomasses such as fruits and vegetables leaves herbs mushrooms microalgae and suspensions of cells Processing of Foods and Biomass Feedstocks by Pulsed Electric Energy presents a singular overview of the biorefinery applications of pulsed electric energy for the processing of wastes and non food biomasses such as root and tuber crops grape waste lignocellulosic biomass oil crops and residues and seeds and peels of exotic and citrus fruits The book begins by presenting general information on the fundamentals of electroporation and information on the procedures and protocols involved Further chapters focus on the specific food processing operations

involved and biorefinery applications for the processing of wastes and non food biomasses All of the relevant and up to date information any researcher needs on pulsed electric energy in food processing is presented here in this text Bound Water: Measurement and Significance in Food Processing Mohammad U.H. Joardder, Monjur Mourshed, Mahadi Hasan Masud, 2018-11-14 This book presents a comprehensive review of the characteristics of bound water and its use in food processing The significance of bound water in food is discussed in terms of quality energy consumption and cost Also included is a thorough discussion on the emerging and appropriate measuring techniques of bound water in food materials The challenges involved with bound water measurement and strategies for bound water removal during processing are covered in order to establish the appropriate conditions for food preservation. This work presents researchers with a clear up to date concept of bound water and its significance in food processing and preservation Despite the importance of bound water in food processing there are limited resources for researchers seeking an in depth understanding of bound water in food materials This is the first reference work dedicated to discussing the details of bound water in food materials and its significance in food processes and preservation from its special characteristics to its energy consumption to its measurement and techniques State of Bound Water Measurement and significance in food processing is a singular work in the field of food Novel and Alternative Methods in Food Processing N. Veena, Megh R. Goyal, Ritesh B. preservation and processing arena Watharkar, 2023-08-04 This new volume explores emerging and advanced techniques in the food processing sector Novel 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 Edible Films and Coatings Maria Pilar Montero Garcia, M. Carmen Gómez-Guillén, M. Elvira López-Caballero, Gustavo V. Barbosa-Cánovas, 2016-09-19 The search for better strategies to preserve foods with minimal changes during processing has been of great interest in recent decades Traditionally edible films and coatings have been used as a partial barrier to moisture oxygen and carbon dioxide through selective permeability to gases as well as improving mechanical handling properties. The advances in this area have been breathtaking and in fact their implementation in the industry is already a reality Even so there are still new developments in various fields and from various perspectives worth reporting Edible Films and Coatings Fundamentals and Applications discusses the newest generation of edible films and coatings that are being especially designed to allow the incorporation and or controlled release of specific additives by means of nanoencapsulation layer by layer assembly and other promising technologies Covering the latest novelties in research conducted in the field of edible packaging it considers state of the art

innovations in coatings and films novel applications particularly in the design of gourmet foods new advances in the incorporation of bioactive compounds and potential applications in agronomy an as yet little explored area which could provide considerable advances in the preservation and quality of foods in the field **Food Process Design** Zacharias B. Maroulis, George D. Saravacos, 2003-05-09 Utilizes simplified computer strategies to analyze develop and optimize industrial food processes Discusses the integration and economic evaluation of the entire processing plant including effective use of water energy and raw materials process profitability and wastewater reduction Offers detailed numerical examples for major food processes including heating cooling evaporation dehydration and thermal processing Food Nanoscience and Nanotechnology Humberto Hernández-Sánchez, Gustavo Fidel Gutiérrez-López, 2015-05-14 Nanoscience and nanotechnology have had a great impact on the food industry They have increased the nutritional and functional properties of a number of food products and have aided in food preservation through the addition of antimicrobials or the reduction of water activity These and many other applications have emerged in recent years to transform food science and technology This book proposes to look at some of these applications and their effect on food production and innovation Fresh-Cut Fruits and Vegetables Sunil Pareek, 2016-08-05 Because they meet the needs of today's consumers fresh cut plant products are currently one of the hottest commodities in the food market of industrialized countries However fresh cut produce deteriorates faster than the correspondent intact produce The main purpose of Fresh Cut Fruits and Vegetables Technology Physiology and Safety is to provide helpful guidelines to the industry for minimizing deterioration keeping the overall guality and lengthening the shelf life It provides an integrated and interdisciplinary approach for accomplishing the challenges where raw materials handling minimal processing packaging commercial distribution and retail sale must be well managed It covers technology physiology quality and safety of fresh cut fruits and vegetables In this book the chapters follow a logical sequence analyzing most of the important factors affecting the main characteristics of fresh cut horticultural products The most relevant technologies to prevent deterioration and improve final overall quality of fresh cut commodities are described in detail This book covers the basics of the subject from quality preservation nutritional losses physiology and safety to industry oriented advancements in sanitization coatings and packaging It examines such novel preservation technologies as edible coatings antimicrobial coatings natural antimicrobials gum arabic coatings and pulsed light treatments Minimal processing design and industrial equipment are also reviewed With its international team of contributors this book will be an essential reference work both for professionals involved in the postharvest handling of fresh cut and minimally processed fruits and vegetables and for academic and researchers working in the area

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