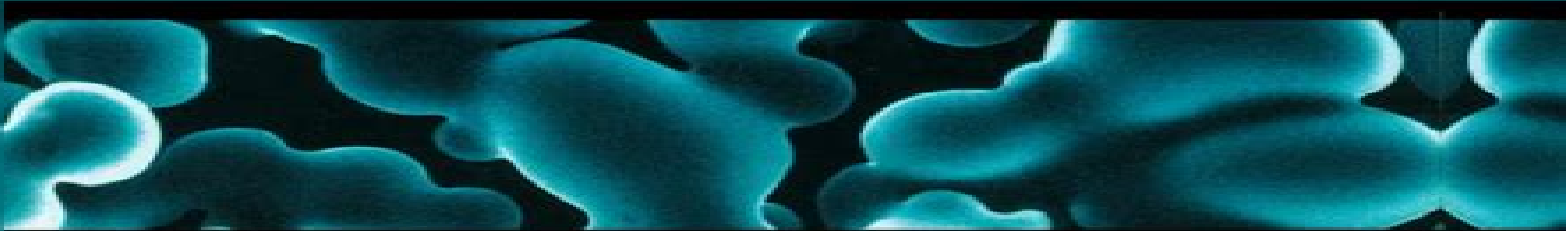




MICROSTRUCTURAL PRINCIPLES OF FOOD PROCESSING AND ENGINEERING

SECOND EDITION



**JOSE MIGUEL AGUILERA
DAVID W. STANLEY**



AN ASPEN PUBLICATION

Microstructural Principles Of Food Processing And Engineering Food Engineering Series

Gustavo V. Barbosa-Cánovas



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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 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

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 and ozone generation **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 activ ities in the food area

Hurdle Technologies: Combination Treatments for Food Stability, Safety and Quality Lothar Leistner, Grahame W. Gould, 2012-12-06 Hurdle Technologies Combination Treatments for Food Stability Safety and Quality is the first work on hurdle technology in which all aspects the possibilities and limitations of hurdle technology are comprehensively outlined and evaluated World renowned on the subject Leistner and Gould were instrumental in the development of the hurdle technology concept and in the last decades have obtained much practical experience in the application of this successful approach in the food industry worldwide

Sterilization of Food in Retort Pouches A.G. Abdul Ghani Al-Baali, Mohammed M. Farid, 2007-11-12 Sterilization of canned food is a well known technology that has been in practice for many decades Food sterilization has been well studied in a large number of textbooks This book is not about the science of sterilization or food safety but rather about the important interaction between uid mechanics heat transfer and microbial inactivation Such interaction is complex and if ignored would lead to incorrect information not only on food sterility but also on food quality The book is written by engineers for both food engineers and scientists However it may also be of interest to those working in computational uid dynamics CFD It presents an elementary treatment of the principles of heat transfer during thermal sterilization and it contains suf cient material presented at a high level of mathematics A background in the solution of ordinary and partial differential equations is helpful for proper understanding of the main chapters of this book However we have avoided going into a detailed numerical analysis of the nite volume method FVM of solutions used to solve the sets of equations Some familiarity with uid dynamics and heat transfer will also be helpful but not essential In this book conduction and convective heat transfer is treated such that the reader is offered the insight that is gained from analytical solutions as well as the important tools of numerical analysis which must be used in practice Analysis of free convection is used to

present a physical picture of the convection process **Instant Controlled Pressure Drop (D.I.C.) in Food Processing**

Tamara Allaf, Karim Allaf, 2013-10-24 The use of Instant Controlled Pressure Drop D I C in food processing operations is relatively new when compared with other conventional or innovative technologies In addition to existing applications such as drying texturing and decontamination D I C technology has been shown to be highly appropriate for an ever growing number of uses and with a wide range of raw materials Some examples are post harvesting and drying of fruits and vegetables cereal steaming extraction of essential oils and active molecules where D I C may be combined with supercritical fluids ultrasound or microwaves and the hydrolysis of cellulose and the transesterification of lipids This book presents a complete picture of current knowledge on the use of D I C in food processing preservation and extraction It provides a comprehensive compilation summarizing the fundamentals of D I C technology current developments new research findings safety precautions and environmental impacts It will also contribute to widening the scope of D I C technology through the inclusion of some much needed examples of industrial applications Each chapter of the book is complementary to the other chapters They all are based on presentations of reputed international researchers and address the latest progress in the field Professor Karim ALLAF heads a research team working on the intensification of eco processes at La Rochelle University He is a physicist and an expert in the thermodynamics of instantaneity Dr Tamara ALLAF is the R D manager of ABCAR DIC Process Company A chemical engineer she obtained her Ph D in innovative extraction processes **Mathematical**

Modelling of Food Processing Operations Stuart Thorne, 1992 Modelling of meat processing modelling of mambrane processes moisture transfer modelling of a liquid food droplet during drying modelling of water relations in fermentation processes the modelling of screw extrusion processes modelling the continuous sterilisation of particulate foods the application of time temperature indicator technology to food quality monitoring and perishable inventory management

Food Plant Economics Zacharias B. Maroulis, 2007-08-02 Applying the proven success of modern process engineering economics to the food industry Food Plant Economics considers the design and economic analysis of food preservation food manufacturing and food ingredients plants with regard to a number of representative food processes Economic analysis of food plants requires the evaluation of quantitative data from the design and operation of food processes and processing plants Accompanying downloadable resources include prepared Excel spreadsheets for calculating various food plants scenarios by applying appropriate data regarding the cost of equipment and equipment sizing material and energy balances and plant operating costs Beginning with a thorough background in the economics of a food plant the first three chapters summarize recent advances in food process and research technology the structure of the food system in the US and EU and the principles of modern design in food processes processing equipment and processing plants The second three chapters discuss process economics in relation to the food industry by applying the concepts of capital cost operating cost and cash flow to estimations of plant profitability Detailed chapters cover estimations of capital investment and operating costs

including statistical data empirical models and useful rules of thumb The remaining three chapters apply the techniques of the previous discussions to food preservation plants such as concentration canning and dehydration manufacturing plants including wine bread and yogurt as well as ingredients plants that produce sugars and oils A useful appendix contains a glossary tables conversions nomenclature food properties and heat transfer coefficients A practical and comprehensive treatment of process economics Food Plant Economics provides a complete introduction to the application of this efficient technique to the food industry Proceedings of the ... Conference of Food Engineering ,2001 Food Structure ,1990

Materials Science & Engineering ,2004 Handbook of Waste Management and Co-Product Recovery in Food Processing K. Waldron,2007-04-06 This comprehensive collection reviews research in the field covering optimisation of manufacturing procedures to decrease waste reduction of energy and water expenditure methods to valorise refuse by co product recovery and techniques to deal with wastewater and solid waste The intensification of agriculture and food production in recent years has led to an increase in the production of food co products and wastes Their disposal by incineration or landfill is often expensive as well as environmentally sensitive Methods to valorise unused co products and improve the management of wastes that cannot be reused as well as techniques to reduce the quantity of waste produced in the first place are increasingly important to the food industry With its distinguished editor and array of international contributors Waste management and co product recovery in food processing reviews the latest developments in this area and describes how they can be used to reduce waste The first section of the book provides a concise introduction to the field with a particular focus on legislation and consumer interests principle drivers of waste management Part 2 addresses the minimisation of biowaste and the optimisation of water and energy use in food processing The third section covers key technologies for co product separation and recovery such as supercritical fluid extraction and membrane filtration as well as important issues to consider when recovering co products such as waste stabilisation and microbiological risk assessment Part 4 offers specific examples of waste management and co product exploitation in particular sectors such as the red meat poultry dairy fish and fruit and vegetable industries The final part of the book summarises advanced techniques to dispose of waste products that cannot be reused and reviews state of the art technologies for wastewater treatment Waste management and co product recovery in food processing is a vital reference to all those in the food processing industry concerned with waste minimisation co product valorisation and end waste management **McGraw-Hill Yearbook of Science and Technology** ,1992 **Design and Nature** C. A. Brebbia,Lance J. Sucharov,P. Pascolo,2002 Proceedings of the First International Conference on Design and Nature held in Udine Italy Sept 2002 Pref **International Food Marketing & Technology** ,1992 Encyclopedia of Life Support Systems Gustavo V. Barbosa-Cánovas,2005 With an increasing global population developing efficient methods for the mass production of food supplies has become crucial Food engineering provides a vital link between primary food production and final consumption As part of the online Encyclopedia of Life

Support Systems EOLSS Food Engineering is a multi author work that provides a rich source of information on the fundamental aspects of food processing preservation production and consumption It discusses the basics underlying food transformation from both the standpoint of food technology and food engineering This publication is essential reading for educators university students professional practitioners and decision makers at all levels **Journal of Biobased Materials and Bioenergy** ,2007 **Strawberry Dehydration Using Sequential Infrared Radiation and Freeze-drying Method** Connie Yu-Hsuan Shih,2006

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