

Food Engineering Series

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Advances in Food Process Engineering Research and Applications



Springer

Advances In Food Process Engineering Research And Applications Food Engineering Series

Medeni Maskan,Aylin Altan



Advances In Food Process Engineering Research And Applications Food Engineering Series:

Advances in Food Process Engineering Research and Applications Stavros Yanniotis, Petros Taoukis, Nikolaos G. Stoforos, Vaios T. Karathanos, 2013-10-21 This is the second publication stemming from the International Congress on Engineering in Food the first being Food Engineering Interfaces based on the last ICEF10 The theme of ICEF 11 held in Athens Greece in May 2011 is Food Process Engineering in a Changing World The conference explored the ways food engineering contributes to the solutions of vital problems in a world of increasing population and complexity that is under the severe constraints of limited resources of raw materials energy and environment The book comprised of 32 chapters features an interdisciplinary focus including food materials science engineering properties of foods advances in food process technology novel food processes functional foods food waste engineering food process design and economics modeling food safety and quality and innovation management Advanced Research Methods in Food Processing Technologies Junaid Ahmad Malik, Megh R. Goyal, Preeti Birwal, Ritesh B. Watharkar, 2024-02-06 This new volume presents new studies and research cases on advanced technologies for food processing and preservation to maintain and improve food quality extend shelf life and provide new solutions to food processing challenges The volume discusses cold plasma and ultrasound processing of foods introducing new food processing technologies and applications It also elaborates on microwave processing of foods describing applications potential and intermittent microwave drying of fruits Other new research focusses on high pressure processing electrospraying technology in foods encapsulation techniques impact of freezing and thawing processes on textural properties of food products 3D printing of foods enzyme linked immunosorbent assay ELISA in food authentication and state of the art applications of nanotechnology in food processing Introduction to Advanced Food Process Engineering Jatindra Kumar Sahu, 2014-03-24 Food materials are processed prior to their consumption using different processing technologies that improve their shelf life and maintain their physicochemical biological and sensory qualities Introduction to Advanced Food Process Engineering provides a general reference on various aspects of processing packaging storage and quality control Handbook of Food Processing, Two Volume Set Theodoros Varzakas, Constantina Tzia, 2015-11-04 Authored by world experts the Handbook of Food Processing Two Volume Set discusses the basic principles and applications of major commercial food processing technologies The handbook discusses food preservation processes including blanching pasteurization chilling freezing aseptic packaging and non thermal food processing It describes com

Food Engineering Interfaces José Miguel Aguilera, Ricardo Simpson, Jorge Welti-Chanes, Daniela Bermudez Aguirre, Gustavo Barbosa-Canovas, 2010-12-25 The International Conference on Food Engineering is held every four years and draws global participation ICEF 10 will be held in April 2008 in Chile with the theme of food engineering at interfaces This will not be a typical proceedings with uneven contributions Papers will be solicited from each plenary speaker plus two or three invited speakers from each topic and the goal is to publish a book that conveys the interdisciplinary spirit of the

meeting as well as covers the topics in depth creating a strong reference work The idea is to explore how food engineers have to be prepared in years ahead not only to perform in their normal activities but also to engage in new challenges and opportunities that will make the profession more attractive responsive and able to create a larger impact These challenges and opportunities are within the profession and at interfaces with other areas A major role of engineers is to incorporate new knowledge into the profession and respond to practical needs The goal is to explore how food engineers are integrating developments in the basic sciences of physics and chemistry nutrition informatics material sciences genomics and other omics quality and safety consumer behavior and gastronomy Interfaces with the environment the business sector regulations and export markets are also important to consider

Computational Fluid Dynamics in Food Processing Da-Wen Sun,2007-05-24 The implementation of early stage simulation tools specifically computational fluid dynamics CFD is an international and interdisciplinary trend that allows engineers to computer test concepts all the way through the development of a process or system With the enhancement of computing power and efficiency and the availability of affordable CF

Biosensors in Food Processing, Safety, and Quality Control Mehmet Mutlu,2016-04-19 This book details the latest developments in sensing technology and its applications in the food industry profiling the improvements achieved in recent years for better food quality safety processing and control Topics discussed include the use of biosensors for the assessment of natural toxins in food and for pesticides and foodborne pathogen

Conventional and Advanced Food Processing Technologies Suvendu Bhattacharya,2014-11-17 Food processing technologies are an essential link in the food chain These technologies are many and varied changing in popularity with changing consumption patterns and product popularity Newer process technologies are also being evolved to provide the added advantages Conventional and Advanced Food Processing Technologies fuses the practical application machinery theoretical model equation and cutting edge recent trends making it ideal for industrial academic and reference use It consists of two sections one covering conventional or well established existing processes and the other covering emerging or novel process technologies that are expected to be employed in the near future for the processing of foods in the commercial sector All are examined in great detail considering their current and future applications with added examples and the very latest data Conventional and Advanced Food Processing Technologies is a comprehensive treatment of the current state of knowledge on food processing technology In its extensive coverage and the selection of reputed research scientists who have contributed to each topic this book will be a definitive text in this field for students food professionals and researchers

Handbook of Frozen Food Processing and Packaging Da-Wen Sun,2016-04-19 Consumer demand for a year round supply of seasonal produce and ready made meals remains the driving force behind innovation in frozen food technology Now in its second edition Handbook of Frozen Food Processing and Packaging explores the art and science of frozen foods and assembles essential data and references relied upon by scientists in univ

Processing Fruits Diane M. Barrett,Laszlo Somogyi,Hosahalli S. Ramaswamy,2004-08-30 The

new edition of this highly acclaimed reference provides comprehensive and current information on a wide variety of fruits and processes Revised and updated by an international team of contributors the second edition includes the latest advances in processing technology scientific research and regulatory requirements Expanded coverage includes fresh cut fruits non thermal methods of fruit processing and more information on the effects of variety and maturity on processed product quality It presents a wide range of information on fruits and fruit products and covers traditional as well as the newest technologies

Novel and Alternative Methods in Food Processing N. Veena, Megh R. Goyal, Ritesh B. 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 Chemistry of Thermal and Non-Thermal Food Processing Technologies Brijesh K Tiwari, Mysore Lokesh Bhavya, 2024-11-29 Chemistry of Thermal and Non Thermal Food Processing Technologies provides the latest information to the food science community about the chemistry of emerging food processing technologies including the fundamentals recent trends chemistry aspects in terms of quality parameters and microbial inactivation for each technology Divided in 4 sections the book focus on a range of emerging technologies such as microwave processing of food radio frequency processing infrared processing ohmic heating drying technologies ionizing radiation processing among others All chapters include the following common features principle scope and mechanisms effect on macromolecules proteins lipids carbohydrates effect on bioactives Vitamins minerals bioactive agents chemistry of microbial inactivation and degradation mechanisms Covers the chemistry aspect of novel food processing technologies Includes chemical constituents associated with food quality and nutritional properties of food Brings fundamental recent trends and chemistry aspects in terms of quality parameters and microbial inactivation **Novel Technologies in Food Science** Navnidhi Chhikara, Anil Panghal, Gaurav Chaudhary, 2023-02-01 NOVEL TECHNOLOGIES IN FOOD SCIENCE Presenting cutting edge information on new and emerging food engineering processes Novel Technologies in Food Science the newest volume in the ground breaking new series Bioprocessing in Food Science is an essential reference on the modelling quality safety and technologies associated with food processing operations today Novel Technologies in Food Science the latest volume in the series Bioprocessing in Food Science is based on the novel technologies in usage and requirements for handling processing storage and packaging of food Novel bioprocessing technologies are gaining more interest among researchers and industries due to the minimal impact on product quality in comparison to conventional methods These techniques are also superior in terms of

energy time saving and extended shelf life and thus can replace the conventional technologies partially or completely Practical application of these technologies by the food industry however is limited due to higher costs lack of knowledge in food manufacturers for the implementation of technologies and validation systems An in depth discussion on consumer needs and rights industry responsibilities and future prospectus of novel technologies in food science are covered in this volume The main objective of this book is to disseminate knowledge about the recent technologies developed in the field of food science to students researchers and industry people This will enable them to make crucial decisions regarding the adoption implementation economics and constraints of the different technologies Different technologies like ultrasonication pulse electric field high pressure processing magnetization ohmic heating and irradiation are discussed with their application in food product manufacturing packaging food safety and quality assurance Whether for the veteran engineer or scientist the student or a manager or other technician working in the field this volume is a must have for any library

Flavors for Nutraceutical and Functional Foods M. Selvamuthukumar, Yashwant Pathak, 2018-08-06 Flavors are an integral part of nutraceutical formulations Flavors offer significant advantage to Nutraceuticals when it comes to palatability and get an edge over other products in an extremely competitive nutraceutical market Flavors for Nutraceuticals and Functional Foods addresses different natural ingredients botanicals used in various functional foods and nutraceutical products The techniques of incorporating flavors in Nutraceutical products can be classified as conventional and using recently developed modern techniques such as nanotechnology are also covered in different chapters These techniques are mainly used for masking the taste of nutraceutical and functional food products The book discusses the basics of flavors and the significance of the flavor industry in relation to Nutraceuticals This book covers various processes involved in incorporating flavor and improving product acceptability It provides an overview on the potential applications of the main terpene based flavors as part of nutraceuticals formulations This book will serve as a reference to academicians and industry people who are involved in Nutraceutical formulations and marketing

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

Fermentation Processes Engineering in the Food Industry
Carlos Ricardo Soccol,Ashok Pandey,Christian Larroche,2013-03-27 With the advent of modern tools of molecular biology and genetic engineering and new skills in metabolic engineering and synthetic biology fermentation technology for industrial applications has developed enormously in recent years Reflecting these advances Fermentation Processes Engineering in the Food Industry explores the state of the art of the engineering technology aspects of fermentation processes in diverse food sectors The book describes the benefits of fermented foods in human health in both dairy and non dairy products and beverages It examines applications of microalgae in the food industry and explains the application of metabolic engineering in the production of fermented food ingredients Exploring a host of important topics in engineering fermentation processes the book covers topics such as Methods and techniques for the isolation improvement and preservation of the microbial cultures used in the food fermentation industry The fundamentals of fermentation processes modes of fermentation and the principles of upstream operation Physical and chemicals factors that affect fermentation processes Different types of fermenters employed in submerged and solid state fermentation Unitary operations for solid liquid separation concentration and drying of fermented foods Instrumentation and control of industrial fermentation processes The final chapter discusses the potential application of a biorefinery concept to add value to food industry wastes and presents a case study describing an integrated project in which the concept was applied An essential reference for all food sector professionals this volume surveys critical trends in the food beverage and additive industry and explores the sustainability of these processes

Advances in Food Extrusion Technology Medeni Maskan,Aylin Altan,2016-04-19 A fresh view of the state of the art Advances in Food Extrusion Technology focuses on extruder selection extrudate development quality parameters and troubleshooting in the 21st century extrusion process In particular the book Introduces the history nomenclature and working principles of extrusion technologyPresents an overview of various t

Food Process Engineering Operations
George D. Saravacos,Zacharias B. Maroulis,2011-02-22 A unique and interdisciplinary field food processing must meet basic process engineering considerations such as material and energy balances as well as the more specialized requirements of food acceptance human nutrition and food safety Food engineering therefore is a field of major concern to university departments of food science and chem

Postharvest Handling Ibrahim Kahramanoglu,2017-09-13 The world population

has been increasing day by day and demand for food is rising. Despite that the natural resources are decreasing and production of food is getting difficult. At the same time about one quarter of what is produced never reaches the consumers due to the postharvest losses. Therefore it is of utmost importance to efficiently handle store and utilize produce to be able to feed the world, reduce the use of natural resources and help to ensure sustainability. At this point postharvest handling is becoming more important which is the main determinant of the postharvest losses. Hence the present book is intended to provide useful and scientific information about postharvest handling of different produce.

Advanced Computational Approaches for Drying in Food Processing Krunal M. Gangawane, Madhuresh Dwivedi, Ram Chandra Pradhan, 2024-09-17

Computational methods have become important techniques for drying in food processing. There are two principle computational approaches for system analysis: continuous and discrete. In the continuous approach the governing equations can be obtained by applying the fundamental laws such as conservation of mass, momentum and energy over an infinitesimal control volume. These equations are further discretized by using a suitable discretization technique. The recovered set of algebraic equations are then solved by an applied numerical method. The discrete approach concentrates on mimicking the molecular movement within system. Recent years have witnessed a rapid development in the field of computational techniques owing to its abundant benefit to the food processing industry. The relevance of advanced computational methods has helped in understanding the fundamental physics of thermal and hydrodynamics behavior that can provide benefits to the food processing industry in numerous applications such as drying, evaporation, sterilization, mixing and refrigeration.

Advanced Computational Approaches for Drying in Food Processing examines the use of different numerical computational techniques for the simulation of fluid flow and heat and mass transfer from within food products such as cereal, chicken, beef, fruits, vegetables and more. The text promotes a thorough understanding of the drying process and its pivotal role in various applications in food processing plus advances in computer simulation techniques which have witnessed rapid popularity due to factors such as low cost and ease in parametric study. CFD analysis and its use in developing new dryers, modification of current systems, energy saving and process optimization is covered in full plus appropriate modelling for enhancement of food quality. Different phytochemical changes are explored plus novel strategies for the use of renewable energy, optimization of energy consumption and heat recovery and application of environmentally friendly technologies. This book provides a single information source for readers interested in the use of methods based on numerical computational analysis as applied for drying phenomenon in food science and technology.

Unveiling the Magic of Words: A Overview of "**Advances In Food Process Engineering Research And Applications Food Engineering Series**"

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