

FOOD PROCESSING

RECENT DEVELOPMENTS

A.G. GAONKAR

Editor

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Food Processing Recent Developments

Ingrid Aguilo-Aguayo, Lucia Plaza



Food Processing Recent Developments:

Food Processing Anilkumar G. Gaonkar, 1995-10-13 Sustained developments in various branches of science and technology have resulted in considerable improvements in food processing methods. These new processing technologies have in turn contributed to enhancement of the quality and acceptability of foods. The aim of this book is to assemble for handy reference new developments pertaining to selected food processing technologies. Food processing methods covered include NMR imaging on line NMR on line sensors ultrasonics synchrotron radiation to study fast events membrane processing bioseparation high pressure processing aseptic processing irradiation freezing extrusion and extraction technologies. The book adequately referenced and illustrated with numerous figures and tables is a valuable reference for scientists engineers and technologists in industries and government laboratories involved in food processing food research and or development and also for faculty advanced undergraduate graduate and postgraduate students from the Food Science Food Engineering and Agricultural Engineering departments. Recent Developments in High Pressure Processing of Foods Navin K Rastogi, 2013-07-16 Features a Foreword by Dr Dietrich Knorr. Fruit processing and preservation technologies must ensure fresh like characteristics in foods while providing an acceptable and convenient shelf life as well as assuring safety and nutritional value. Processing technologies include a wide range of methodologies to inactivate microorganisms improve quality and stability and preserve and minimize changes of fresh like characteristics in fruit. High pressure as a food preservation technique inactivates microorganisms at room temperature or lower thus sensory and nutritional characteristics can be maintained. In recent years a significant increase in the number of scientific papers in literature demonstrating novel and diversified uses of high pressure processing indicates it to be highly emerging technology. The effect of high pressure technology on the quality and safety of foods will be discussed. Selected practical examples in fruits and vegetables dairy and meat industries using high pressure will be presented and discussed. A brief account of the challenges in adopting this technology for industrial development will also be included. **Innovative Food Processing Technologies**, 2020-08-18 Food process engineering a branch of both food science and chemical engineering has evolved over the years since its inception and still is a rapidly changing discipline. While traditionally the main objective of food process engineering was preservation and stabilization the focus today has shifted to enhance health aspects flavour and taste nutrition sustainable production food security and also to ensure more diversity for the increasing demand of consumers. The food industry is becoming increasingly competitive and dynamic and strives to develop high quality freshly prepared food products. To achieve this objective food manufacturers are today presented with a growing array of new technologies that have the potential to improve or replace conventional processing technologies to deliver higher quality and better consumer targeted food products which meet many if not all of the demands of the modern consumer. These new or innovative technologies are in various stages of development including some still at the R D stage and others that have been commercialised as

alternatives to conventional processing technologies Food process engineering comprises a series of unit operations traditionally applied in the food industry One major component of these operations relates to the application of heat directly or indirectly to provide foods free from pathogenic microorganisms but also to enhance or intensify other processes such as extraction separation or modification of components The last three decades have also witnessed the advent and adaptation of several operations processes and techniques aimed at producing high quality foods with minimum alteration of sensory and nutritive properties Some of these innovative technologies have significantly reduced the thermal component in food processing offering alternative nonthermal methods Food Processing Technologies A Comprehensive Review Three Volume Set covers the latest advances in innovative and nonthermal processing such as high pressure pulsed electric fields radiofrequency high intensity pulsed light ultrasound irradiation and new hurdle technology Each section will have an introductory article covering the basic principles and applications of each technology and in depth articles covering the currently available equipment and or the current state of development food quality and safety application to various sectors food laws and regulations consumer acceptance advancements and future scope It will also contain case studies and examples to illustrate state of the art applications Each section will serve as an excellent reference to food industry professionals involved in the processing of a wide range of food categories e g meat seafood beverage dairy eggs fruits and vegetable products spices herbs among others

Recent Advances in Ready-to-Eat Food Technology Hari Niwas Mishra, Pradyuman Kumar, Ajay Singh, 2024-11-28 Ready to Eat RTE describes foods that need not be cooked reheated or otherwise prepared before consuming them Recent Advances in Ready to Eat Food Technology covers all the aspects of RTE from statistics method of production mechanization thermal and non thermal processing gluten free consumer behavior control of foodborne illness and hygiene packaging requirements and improved functionalization to application of nanotechnology Key Features Covers the development of ready to eat products from meat cereal fruits vegetables dairy and pulses Provides a global review of labeling and packaging for ready to eat products Discusses hygienic design and safety in the production and consumption with an emphasis on pathogenicity issues Written by a team of well recognized researchers who present the latest advances in RTE food product development this book is of interest to industry professionals and academicians as well as to undergraduate students and postgraduate researchers

Recent Advances in Micro- and Macroalgal Processing Gaurav Rajauria, Yvonne V. Yuan, 2021-04-19 Recent Advances in Micro and Macroalgal Processing A comprehensive review of algae as novel and sustainable sources of algal ingredients their extraction and processing This comprehensive text offers an in depth exploration of the research and issues surrounding the consumption economics composition processing and health effects of algae With contributions from an international team of experts the book explores the application of conventional and emerging technologies for algal processing The book includes recent developments such as drying and milling technologies along with advancements in sustainable greener techniques The text

also highlights individual groups of compounds including polysaccharides proteins polyphenols carotenoids lipids and fibres from algae The authors provide insightful reviews of the traditional and more recent applications of algae algal extracts in food feed pharmaceutical and cosmetics products Offering a holistic view of the various applications the book looks at the economic feasibility market trends and considerations and health hazards associated with algae for industrial applications This important book Provides a comprehensive overview of algal biomolecules and the role of emerging processing technologies Explores the potential biological and health benefits of algae and their applications in food pharmaceuticals and cosmetic products Includes a current review of algal bioactives and processing technologies for food and ingredient manufacturers Contains contributions from leading academic and industrial experts Written for food scientists allied researchers and professional food technologists Recent Advances in Micro and Macroalgal Processing Food and Health Perspectives offers a guide to the novel processing and extraction techniques for exploring and harnessing the immense potential of algae

Emerging Technologies for Food Processing Da-Wen Sun, 2005-07-19 Emerging Technologies for Food Processing presents a comprehensive review of innovations in food processing stresses topics vital to the food industry today and pinpoints the trends in future research and development This volume contains 27 chapters and is divided into six parts covering topics such as the latest advances in non thermal processing alternative technologies and strategies for thermal processing the latest developments in food refrigeration and current topics in minimal processing of vegetables fruits juices and cook chill ready meals and modified atmosphere packaging for minimally processed foods Each chapter is written by international experts presenting thorough research results and critical reviews Includes a comprehensive list of recently published literature Covers topics such as high pressure pulsed electric fields recent developments in microwave heating and vacuum cooling

Progress in Food Preservation Rajeev Bhat, Abd Karim Alias, Gopinadhan Paliyath, 2012-03-05 This volume presents a wide range of new approaches aimed at improving the safety and quality of food products and agricultural commodities Each chapter provides in depth information on new and emerging food preservation techniques including those relating to decontamination drying and dehydration packaging innovations and the use of botanicals as natural preservatives for fresh animal and plant products The 28 chapters contributed by an international team of experienced researchers are presented in five sections covering Novel decontamination techniques Novel preservation techniques Active and atmospheric packaging Food packaging Mathematical modelling of food preservation processes Natural preservatives This title will be of great interest to food scientists and engineers based in food manufacturing and in research establishments It will also be useful to advanced students of food science and technology

Recent Advances in Food Biotechnology Ajay Kumar, Kiran Patruni, Vijai Singh, 2022-06-24 This book highlights important aspects of food biotechnology It is very thoughtfully divided into five sections The first section introduces the readers to food biotechnology and discusses functional foods use of plant and animal biotechnology in improving food quality The second section deals with

food microbiology and includes topics such as application of microbial surfactants use of probiotics beneficial microorganisms used in food industry etc The third section describes important macro and micromolecules in foods It includes chapters on food enzymes gluten free formulations use of biopolymers biofortification of food and other important topics The next section discusses novel technologies such as use of nanotechnology in food industry reverse micelle techniques genome editing in food crops etc The book culminates with a section on food quality and management It describes important topics about biosafety and regulatory issues in food biotechnology This book is meant for students researchers and course instructors in food science food technology and biotechnology It is also useful for industry experts in the area of food technology

Non-Thermal Food Processing Technologies Kaavya Rathnakumar,R. Pandiselvam,2024-10-03 Various processes are required to preserve and extend the shelf life of food many of which cause detrimental effects on the color and appearance of food Alternative methods for the thermal processing of food are gaining importance day by day due to increased consumer demand for minimally processed fresh like food products with high sensory appearance and nutritional qualities This new book provides an informative overview of non thermal food processing technologies that can preserve food color and appearance The book offers comprehensive coverage of the application of emerging technologies on the color profile of different food products such as fruits vegetables beverages dairy products and meat It discusses the influence and impact of emerging technologies on the color and appearance of foods and beverages along with their challenges and prospects The food processing technologies discussed include cold plasma ultrasound microwave processing ozone processing ohmic heating pulsed light UV irradiation pulsed electric field high pressure processing vacuum frying and others This book Non Thermal Food Processing Technologies Impact on Color Profile offers an important context on applying emerging food processing technologies to solve food safety issues and enhance shelf life extension while paying attention to food appearance It is an excellent resource for food engineers and technologists processors nutritionists and food industry professionals for exploring new non thermal techniques

Handbook of Food Processing Equipment George D. Saravacos,Athanasios E. Kostaropoulos,2012-12-06 Recent publications in food engineering concern mainly food process engineering which is related to chemical engineering and deals primarily with unit operations and unit processes as applied to the wide variety of food processing operations Relatively less attention is paid to the design and operation of food processing equipment which is necessary to carry out all of the food processes in the food plant Significant technical advances on processing equipment have been made by the manufacturers as evidenced by the efficient modern food processing plants There is a need to relate advances in process engineering to process equipment and vice versa This book is an attempt to apply the established principles of transport phenomena and unit operations to the design selection and operation of food processing equipment Since food processing equipment is still designed empirically due to the complexity of the processes and the uncertainty of food properties description of some typical industrial units is necessary to understand the operating

characteristics Approximate values and data are used for illustrative purposes since there is an understandable lack of published industrial data **Non-thermal Food Engineering Operations** Enrique Ortega-Rivas, 2012-02-25 This book describes the advent and adaptation of food processing operations processes and techniques which reduce even eliminate the thermal component resulting in microbiologically safe foods with minimum alteration in sensory and nutritive properties

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

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 Food Storage, Spoilage and Shelf Life: Recent Developments and

Insights Shalini Gaur Rudra, Santanu Basu, Anindya Chanda, 2022-08-29 **Innovative Technologies in Beverage Processing** Ingrid Aguilo-Aguayo, Lucia Plaza, 2017-05-22 An in depth look at new and emerging technologies for non alcoholic beverage manufacturing The non alcoholic beverage market is the fastest growing segment of the functional food industry worldwide Consistent with beverage consumption trends generally the demand among consumers of these products is for high nutrient drinks made from natural healthy ingredients free of synthetic preservatives and artificial flavor and color enhancers Such drinks require specialized knowledge of exotic ingredients novel processing techniques and various functional ingredients The latest addition to the critically acclaimed IFST Advances in Food Science series this book brings

together edited contributions from internationally recognized experts in their fields who offer insights and analysis of the latest developments in non alcoholic beverage manufacture Topics covered include juices made from pome fruits citrus fruits prunus fruits vegetables exotic fruits berries juice blends and non alcoholic beverages including grain based beverages soups and functional beverages Waste and by products generated in juice and non alcoholic beverage sector are also addressed Offers fresh insight and analysis of the latest developments in non alcoholic beverage manufacture from leading international experts Covers all product segments of the non alcoholic beverage market including juices vegetable blends grain based drinks and alternative beverages Details novel thermal and non thermal technologies that ensure high quality nutrient retention while extending product shelf life Written with the full support of The Institute of Food Science and Technology IFST the leading qualifying body for food professionals in Europe Innovative Technologies in Beverage Processing is a valuable reference working resource for food scientists and engineers working in the non alcoholic beverage industry as well as academic researchers in industrial food processing and nutrition

Entrepreneurship Development in Food Processing K P Sudheer,V. Indira,2021-11-23 This book covers various facets of entrepreneurial opportunities in processing sector The editors have made an exhaustive effort to provide information on various entrepreneurial opportunities in food processing sector This book clarifies most of the technical questions which arises on entrepreneurship ventures in food processing sector Also the book will be useful to prospective entrepreneurs food engineers agricultural engineers researchers and also to those who are working in the relevant fields Note T F does not sell or distribute the hardback in India Pakistan Nepal Bhutan Bangladesh and Sri Lanka This title is co published with NIPA

Energy Efficiency and Management in Food Processing Facilities Lijun Wang,2008-12-04 Energy efficiency environmental protection and processing waste management continue to attract increased attention in the food processing industry As with other industrial sectors reducing costs while also reducing environmental impact and improving overall sustainability is becoming an important part of the business process Providing practica

Thermal Food Processing Da-Wen Sun,2005-12-12 The challenge of maintaining both quality and safety in the thermal processing of foods results from the degradation of heat sensitive quality attributes during processing The editor of Thermal Food Processing New Technologies and Quality Issues presents a comprehensive reference through authors that assist in meeting this challenge by explaining

Catalogue of Research Literature for Development: Food production and nutrition United States. Agency for International Development. Bureau for Technical Assistance,1976

Low-Temperature Processing of Food Products Seid Mahdi Jafari,Hadis Rostamabadi,2024-03-30 Approx 460 pages Thoroughly explores novel applications of low temperature unit operations in food industries Brings innovative freezing technologies Clarifies phase change of water freezing processes mass and heat transfer phenomena

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

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