Food Engineering Series
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Mohammed Wasim Siddiqui Mohammad Shafiur Rahman *Editors*

Minimally Processed Foods

Technologies for Safety, Quality, and Convenience



Mohammed Wasim Siddiqui, Mohammad Shafiur Rahman

Minimally Processed Foods Mohammed Wasim Siddigui, Mohammad Shafiur Rahman, 2014-10-29 The safety and efficacy of minimal food processing depends on the use of novel preservation technologies. This book first examines what is meant by minimally processed foods including fresh cut cooked chilled and part baked products Next explored are the technologies or methods to produce quality products in terms of safety and nutrition including edible coating natural preservatives i e antimicrobial flavour enhancer anti browning advanced packaging active antimicrobial and modified or controlled atmosphere and selected non thermal techniques high pressure pulsed electric field ultrasound light Preservation of food is crucial to achieving a secure and safe global food supply with the desired sensory quality In addition the increasing consumer demand for safe ready to serve ready to eat and cook products with minimal chemical preservatives has raised expectations However foods deemed minimally processed such as fresh cut fruits and vegetables cooked chilled and half baked foods are delicate products that need special care in preparation processing storage and handling As a result new technologies to develop minimally processed foods have aggressively advanced Minimally Processed Foods Technologies for Safety Quality and Convenience explores both the definition of minimally processed foods and the methods and technologies used to achieve the safety and nutritional value consumers demand About the Editors Mohammed Wasim Siddiqui Bihar Agricultural University Sabour Bhagalpur India Mohammad Shafiur Rahman Sultan Qaboos University Al khod Oman Current Developments in Biotechnology and Bioengineering Ayon Tarafdar, Ashok Pandey, Ranjna Sirohi, Carlos Ricardo Soccol, Claude-Gilles Dussap, 2022-08-24 Advances in Food Engineering the latest release in the Current Developments in Biotechnology and Bioengineering series is a unique source of state of art information about scientific and technological advances in food engineering The book gives specific understanding of the engineering properties of food materials such as the morphological physic chemical nutritional thermal and organoleptic characteristics of food products It covers food processing and preservation methods such as pressure light electromagnetic sound and heat based and also the use of artificial intelligence based machineries intelligent control systems Internet of Things IoT and Blockchain for food security traceability Reviews technological advancements in food engineering Includes applications of emerging thermal non thermal and intelligent techniques systems in the field of food processing food supply chain and food analysis Presents innovative approaches like artificial intelligence in food engineering Provides comprehensive and integrated details in food processing engineering analysis while also helping users understand covered concepts **Techniques to Measure Food Safety and** Quality Mohidus Samad Khan, Mohammad Shafiur Rahman, 2021-09-22 This book addresses the basic understanding of food contaminants and their sources followed by the techniques to measure food safety and quality It is divided into four parts Part A sources of contaminants in foods their associated health risks and integrated management and alternative options to minimize contaminants Part B Technological assessment of conventional methods and selected advanced methods for the

detection identification and enumeration of microbial contaminates Part C Technological assessment of different chemical measurements techniques and Part D Technological assessment of different instrumental techniques to assess sensory properties of foods Food safety is a growing concern due to the increase in food borne illnesses caused by food adulteration excessive use of pesticides use of chemical preservatives and artificial fruit ripening agents microbial contaminations and improper food handling Chemical contaminants in food could be transferred from environmental or agrochemical sources personal care products and other by products of water disinfects In addition microbial food safety can be threatened due to the presence of many pathogens such as Salmonella Escherichia coli Clostridium botulinum Staphylococcus aureus and Listeria monocytogenes in foods Globally strict regulations are imposed to limit the potential contaminants in foods Development of accurate rapid and inexpensive approaches to test food contamination and adulteration would be highly valued to ensure global food safety There are existing processes to ensure safety of food products from chemical and microbial contaminants Apart from the existing measurement technologies varieties of new techniques are also being emerged and these could be potential to ensure food safety and quality In addition to chemical and microbial properties sensory properties such as texture mouth feel flavor and taste are among the most important attributes of food products to ensure their acceptability by consumers Two approaches are available to evaluate sensory properties of food products namely subjective and objective analyses The responses are perceived by all five senses smell taste sight touch and hearing The approach used in sensory evaluation varies depending on the types of foods and the ultimate goal of the testing Sensory attributes are the most important quality parameters after ensuring the safety of foods **Food Processing Technology** P.J. Fellows, 2016-10-04 Food Processing Technology Principles and Practice Fourth Edition has been updated and extended to include the many developments that have taken place since the third edition was published. The new edition includes an overview of the component subjects in food science and technology processing stages important aspects of food industry management not otherwise considered e g financial management marketing food laws and food industry regulation value chains the global food industry and over arching considerations e g environmental issues and sustainability In addition there are new chapters on industrial cooking heat removal storage and distribution along with updates on all the remaining chapters This updated edition consolidates the position of this foundational book as the best single volume introduction to food manufacturing technologies available remaining as the most adopted standard text for many food science and technology courses Updated edition completely revised with new developments on all the processing stages and aspects of food industry management not otherwise considered e g financial management marketing food laws and food industry regulation and more Introduces a range of processing techniques that are used in food manufacturing Explains the key principles of each process including the equipment used and the effects of processing on micro organisms that contaminate foods Describes post processing operations including packaging and distribution logistics Includes extra textbook elements

such as videos and calculations slides in addition to summaries of key points in each chapter **Handbook of Food Preservation** M. Shafiur Rahman, 2020-06-10 The processing of food is no longer simple or straightforward but is now a highly inter disciplinary science A number of new techniques have developed to extend shelf life minimize risk protect the environment and improve functional sensory and nutritional properties Since 1999 when the first edition of this book was published it has facilitated readers understanding of the methods technology and science involved in the manipulation of conventional and newer sophisticated food preservation methods The Third Edition of the Handbook of Food Preservation provides a basic background in postharvest technology for foods of plant and animal origin presenting preservation technology of minimally processed foods and hurdle technology or combined methods of preservation Each chapter compiles the mode of food preservation basic terminologies and sequential steps of treatments including types of equipment required In addition chapters present how preservation method affects the products reaction kinetics and selected prediction models related to food stability what conditions need be applied for best quality and safety and applications of these preservation methods in different food products This book emphasizes practical cost effective and safe strategies for implementing preservation techniques for wide varieties of food products Features Includes extensive overview on the postharvest handling and treatments for foods of plants and animal origin Describes comprehensive preservation methods using chemicals and microbes such as fermentation antimicrobials antioxidants pH lowering and nitrite Explains comprehensive preservation by controlling of water structure and atmosphere such as water activity glass transition state diagram drying smoking edible coating encapsulation and controlled release Describes preservation methods using conventional heat and other forms of energy such as microwave ultrasound ohmic heating light irradiation pulsed electric field high pressure and magnetic field Revised updated and expanded with 18 new chapters the Handbook of Food Preservation Third Edition remains the definitive resource on food preservation and is useful for practicing industrial and academic food scientists technologists and engineers

Minimally Processed Refrigerated Fruits and Vegetables Fatih Yildiz, Robert C. Wiley, 2017-05-11 The first edition of Minimally Processed and Refrigerated Fruits and Vegetables edited by Robert C Wiley and Fatih Yildiz was published in 1994 At the time of publication this was a new concept and was well received by the scientific community Minimally processed foods are whole plant tissues the identity of the plant tissue is recognized by consumers which may contain active enzymes live tissues and plant cells These are some of the basics for the healthy food design The overall function of these foods is to provide convenient ready to serve ready to cook free of any pesticides and contaminants like fresh products for food service and retail consumers Minimally Processed and Refrigerated Foods MPR have been popular in many countries The following are some of the advantages offered by MPR produce foods 1 Ease of portion control in the food service industry 2 Lower transportation cost all inedible portions of the produce are removed prior to transportation 3 No waste is generated at the point of consumption 4 Utilization and recycling of the waste is much easier 5 Value added new fruit and vegetable products

and meal development is possible and easy 6 No requirement is needed for phytosanitary control during trade 7 No glycation end products formation during processing 8 Degree of food processing is minimized for optimal health of human the processing plant for MPR produce which is not addressed in any other books on this topic will be described in this second edition Also comparison of minimal processing technologies with other technologies was explained in the first publication and will be updated in this second edition During the last 200 years the purpose of food processing was a safety sterilization Pasteurization 1804 Nicholas Apert Pasteur 1867 and b prevention of deficiency diseases Enrichments but MPR foods provides a two new dimensions to food processing a Prevention of chronic diseases bioactive compounds and b Optimum health functional foods Superfoods Neutraceuticals and Medical foods for human **Emerging Technologies for the** Food Industry C. Anandharamakrishnan, Jeyan Arthur Moses, 2024-04-30 With changing consumer preferences and the focus on developing resilient food systems food processing is finding its place in key policies government interventions global trade and the overall food and nutritional security Given this this new 3 volume collection presents a compilation of emerging and futuristic food processing technologies introducing fundamental concepts of food technology trending applications and a range of interdisciplinary concepts that have found numerous interwoven applications in the food industry Volume 1 presents the basics of food preservation covering hurdle technology aspects of minimal processing ohmic heating of foods edible coatings and electromagnetics and allied applications in food processing It also discusses novel methods of food quality evaluation and covers the fundamentals and new applications of nanotechnology in the food sector The other volumes in the series are Volume 2 Advances in Nonthermal Processing Technologies which focuses on the interesting field of nonthermal processing and its applications and Volume 3 ICT Applications and Future Trends in Food Processing which provides an exploration of the future of food processing highlighting certain emerging and disruptive technologies and their gaining influence in the food sector Introduction to Food Engineering R. Paul Singh, Dennis R. Heldman, 2001-06-29 Food engineering is a required class in food science programs as outlined by the Institute for Food Technologists IFT The concepts and applications are also required for professionals in food processing and manufacturing to attain the highest standards of food safety and quality The third edition of this successful textbook succinctly presents the engineering concepts and unit operations used in food processing in a unique blend of principles with applications The authors use their many years of teaching to present food engineering concepts in a logical progression that covers the standard course curriculum Each chapter describes the application of a particular principle followed by the quantitative relationships that define the related processes solved examples and problems to test understanding The subjects the authors have selected to illustrate engineering principles demonstrate the relationship of engineering to the chemistry microbiology nutrition and processing of foods Topics incorporate both traditional and contemporary food processing operations Engineering Aspects of Food Quality and Safety H. Umesh Hebbar, Richa Sharma, Ram Saran Chaurasiya, Shivendu Ranjan, K.S.M.S.

Raghavarao, 2023-08-21 Engineering Aspects of Food Quality and Safety aims to fill the knowledge gap in current technological advances and methods for food safety and quality dedicating entire sections to analytical techniques from quality testing to packaging post harvest methods from product utilization to storage to chemical engineering principles and pre harvest interventions from genetic engineering and mechanization to the links between pre and post harvest techniques Throughout the book global policy perspectives are taken into account An introductory section is also included to cover the role of food processing and engineering in food quality and safety improvement Encompassing all of the major applications and challenges involved in the engineering aspects of food safety and quality in one source this work is incredibly valuable to a wide range of food engineers scientists and industry professionals involved in the engineering processing and packaging of both novel and traditional foods This text provides a detailed overview of the newest methods and advanced technologies used in the improvement of quality and safety in foods The processes and methods described in this book are applicable to many areas of the food industry including pre harvest and post harvest technology food machinery and product formulation Featuring contributions from prominent food scientists and engineers across the globe this work contains detailed coverage of the latest advances in genetic and chemical engineering mechanization thermal and non thermal processing automation computational tools packaging and waste management The latest analytical techniques are also covered including chapters dedicated to in line monitoring nanosensors rapid testing kits and E sensors Maintaining a high standard of safety for consumers in foods is an interdisciplinary effort involving biologists chemists nutritionists chemical engineers mechanical engineers and genetic engineers among others All of these experts will find this book to be a singular source encompassing all of the major current advances in food safety engineering and processing Fruit and Vegetable Phytochemicals Elhadi M. Yahia, 2017-11-06 Now in two volumes and containing more than seventy chapters the second edition of Fruit and Vegetable Phytochemicals Chemistry Nutritional Value and Stability has been greatly revised and expanded Written by hundreds of experts from across the world the chapters cover diverse aspects of chemistry and biological functions the influence of postharvest technologies analysis methods and important phytochemicals in more than thirty fruits and vegetables Providing readers with a comprehensive and cutting edge description of the metabolism and molecular mechanisms associated with the beneficial effects of phytochemicals for human health this is the perfect resource not only for students and teachers but also researchers physicians and the public in general **Emerging Technologies for Food Processing** Da-Wen Sun, 2014-08-14 The second edition of Emerging Technologies in Food Processing presents essential authoritative and complete literature and research data from the past ten years It is a complete resource offering the latest technological innovations in food processing today and includes vital information in research and development for the food processing industry It covers the latest advances in non thermal processing including high pressure pulsed electric fields radiofrequency high intensity pulsed light ultrasound irradiation and addresses the newest hurdles in technology where

extensive research has been carried out Provides an extensive list of research sources to further research development Presents current and thorough research results and critical reviews Includes the most recent technologies used for shelf life extension bioprocessing simulation and optimization Non-Thermal Processing of Functional Foods Sudip Kumar Pattanayek, Debashis Dutta, Ajay Singh, 2024-12-31 Functional foods also known as nutraceuticals began to gain prominence in the 1980s in Japan as foods for specified health use and became more widely recognized in the 1990s as research and interest in foods that could provide specific health benefits beyond essential nutrition grew worldwide These foods are typically enriched with bioactive components or formulated to contain substances or live microorganisms with a possible health enhancing or disease preventing value and at a safe and sufficiently high concentration to achieve the intended benefit Usually the added ingredients are classified as nutrients dietary fiber phytochemicals other substances or probiotics The production storage and consumer consumption of these functional foods require special attention to preserve quality attributes The production process of these foods can be classified as conventionally used thermal processing methods and non thermal alternatives In addition these processes may be combined with biological approaches involving enzymatic treatment and fermentation The various non thermal processes such as ultrasounds high hydrostatic pressure vacuum impregnation high voltage electrical discharge cold plasma pulsed light ozonation etc can be utilized for a product to sustain preserve quality attributes of the ingredients long shelf life and sensory qualities This book compiles the latest non thermal processing technologies to develop functional foods The book discusses bioactivity bioaccessibility and bioavailability related to nutrition and functional food ingredients It has 16 articles on different aspects of non thermal processing technologies Chapter 1 has discussed a general overview of emerging technologies and various non thermal processing techniques are discussed in Chapters 2 6 8 9 and 12 Chapters 7 11 13 15 and 16 discuss food safety and preservation We have discussed the functional foods and bioactive compounds in Chapters 10 and 14 A few of these reviews discuss the impact of developing non thermal technologies on several food components proteins carbohydrates lipids minerals vitamins polyphenols glucosinolates fragrance compounds and enzymes while maintaining the structure and functional properties This book is an excellent source of information for professionals postgraduate students and researchers in food sciences and chemical engineering The Stability and Shelf Life of Food Persis Subramaniam, Peter Wareing, 2016-05-24 The second edition of The Stability and Shelf life of Food is a fully revised and thoroughly updated edition of this highly successful book This new edition covers methods for shelf life and stability evaluation reviewing the modelling and testing of the deterioration of products as well as the use of sensory evaluation methods for testing food spoilage The first part of the book focuses on deteriorative processes and factors influencing shelf life covering aspects such as chemical deterioration physical instability and microbiological spoilage The effects of process and packaging on the stability and shelf life of products are also covered in this part Part Two reviews the methods for shelf life and stability evaluation These include sensory evaluation methods and instrumental methods to

determine food quality deterioration The final section of the book covers stability of important ingredient categories from oils and fats to beverages such as beer wine coffee and fruit juices in addition to bakery products and meats With updated chapters reflecting advances made in the field and with the addition of new chapters covering the stability and shelf life a variety of products this new edition will provide the latest research for both academics working in the field of food quality as well as providing essential information for food scientists working in industry Thoroughly revised and updated edition of a very popular and well regarded book Includes dedicated chapters covering the shelf life and stability of specific products making this book ideal for those working in industry Presents a wide coverage of the processes and factors influencing shelf life the evaluation of stability and shelf life and the stability and shelf life of particular products makes this book valuable for both academics and those working in industry Utilizing Microfluidics in the Food Industry C. Anandharamakrishnan, Jeyan Arthur Moses, Pramila Murugesan, Maria Leena, 2024-11-20 Microfluidics for the food industry thoroughly covers the state of the art applications of microfluidic system for food sector The book presents fundamental concepts of microfluidic devices liquid conduction in microfluidics fabrication techniques computational approaches scalability approaches and emerging concepts in nanofluidics. The second section provides details on microfluidics for food structure emulsion foams micro and nano carriers formulation and aspects for food processing food safety and quality analysis The last section is dedicated to providing a futuristic view of this rapidly advancing field emphasizing the need for research and market potential A comprehensive reference written by world renowned scientists providing both fundamentals and principles or other application sectors in the Microfluidics on food processing Addresses the basic fundamental concepts and principles behind the design and fabrication of microfluidic devices Provides practical guidance on how to analyze and test microfluidic devices Discusses the application of microfluidic technology for food processing and food safety analysis Covers major challenges and provides a futuristic overview of microfluidic applications for the food industry Brings applications literature reviews recent developments methods and case studies Active Packaging for Various Food Applications M. Selvamuthukumaran, 2021-10-06 Microbial attacks occur on food surfaces even when the food is packaged This can be attributed to moisture permeability in the packaging materials and other environmental conditions Therefore active agents like antimicrobial components and antioxidants must be incorporated into the packaging system these active agents function by enhancing the stability of the product to a greater extent Implementing an active packaging system ensures the safety and quality aspects of packaged foods so that consumers may use the products without worry Active Packaging for Various Food Applications addresses the significance of active packaging for enhancing the quality and safety of various packaged foods This book discusses extending the shelf life of various food products by incorporating various active packaging systems It also addresses bioactive materials used for packing food products and applications of nanomaterials in an active packaging system Key Features Describes the uses of active packaging materials for various food

processing industries like dairy cereals fruits and vegetables meat etc Explains the application of biosensors for the detection of spoilage of active packed food products Discusses the importance of active packaging techniques for retaining antioxidants and micro as well as macronutrients Highlights the importance of active packaging of foods and its advantages This book is a great source for academicians scientists research scholars and food industry personnel because it sheds light on the recent techniques used in active packaging systems for enhancing quality aspects Food Engineering Innovations Across the Food Supply Chain Pablo Juliano, Kai Knoerzer, Jay Sellahewa, Minh H. Nguyen, Roman Buckow, 2021-12-05 Food Engineering Innovations Across the Food Supply Chain discusses the technology advances and innovations into industrial applications to improve supply chain sustainability and food security The book captures the highlights of the 13th International Congress of Engineering ICEF13 under selected congress themes including Sustainable Food Systems Food Security Advances in Food Process Engineering Novel Food Processing Technologies Food Process Systems Engineering and Modeling among others Edited by a team of distinguished researchers affiliated to CSIRO this book is a valuable resource to all involved with the Food Industry and Academia Feeding the world's population with safe nutritious and affordable foods across the globe using finite resources is a challenge The population of the world is increasing There are two opposed sub populations those who are more affluent and want to decrease their caloric intake and those who are malnourished and require more caloric and nutritional intake For sustainable growth an increasingly integrated systems approach across the whole supply chain is required Focuses on innovation across the food supply chain beyond the traditional food engineering discipline Brings the integration of on farm with food factory operations the inclusion of Industry 4 0 sensing technologies and Internet of Things IoT across the food chain to reduce food wastage water and energy inputs Makes a full intersection into other science domains operations research informatics agriculture and agronomy machine learning artificial intelligence and robotics Nonthermal Processing Technologies for Food Howard Q. Zhang, Gustavo V. intelligent packaging among others Barbosa-Cinovas, V. M. Balasubramaniam, C. Patrick Dunne, Daniel F. Farkas, James T. C. Yuan, 2011-02-04 Nonthermal Processing Technologies for Food offers a comprehensive review of nonthermal processing technologies that are commercial emerging or over the horizon In addition to the broad coverage leading experts in each technology serve as chapter authors to provide depth of coverage Technologies covered include physical processes such as high pressure processing HPP electromagnetic processes such as pulsed electric field PEF irradiation and UV treatment other nonthermal processes such as ozone and chlorine dioxide gas phase treatment and combination processes Of special interest are chapters that focus on the pathway to commercialization for selected emerging technologies where a pathway exists or is clearly identified These chapters provide examples and case studies of how new and nonthermal processing technologies may be commercialized Overall the book provides systematic knowledge to industrial readers with numerous examples of process design to serve as a reference book Researchers professors and upper level students will also find the book a valuable text on the subject

Glass Transition and Phase Transitions in Food and Biological Materials Jasim Ahmed, Mohammad Shafiur Rahman, Yrjo H. Roos, 2017-02-09 Glass and State Transitions in Food and Biological Materials describes how glass transition has been applied to food micro structure food processing product development storage studies packaging development and other areas This book has been structured so that readers can initially grasp the basic principles and instrumentation before moving through the various applications In summary the book will provide the missing link between food science and material science polymer engineering This will allow food scientists to better understand the concept and applications of thermal properties Fruit Preservation Amauri Rosenthal, Rosires Deliza, Jorge Welti-Chanes, Gustavo V. Barbosa-Cánovas, 2018-11-05 Fruits and fruit based products are in most cases associated with very good sensory characteristics health well being perishability relatively easy to mix with food products of diverse origin amenable to be processed by conventional and novel technologies Given the multiplicity of aspects whenever fruit preservation is considered the editors took the challenge of covering in a thorough comprehensive manner most aspects dealing with this topic To accomplish these goals the editors invited well known colleagues with expertise in specific disciplines associated with fruit preservation to contribute chapters to this book Eighteen chapters were assembled in a sequence that would facilitate like building blocks to have at the same time a birds eye view and an in depth coverage of traditional and novel technologies to preserve fruits Even though processing took center stage in this book ample space was dedicated to other relevant and timely topics on fruit preservation such as safety consumer perception sensory and health aspects FEATURES Traditional and Novel Technologies to Process Fruits Microwaves Ohmic Heating UV C light Irradiation High Pressure Pulsed Electric Fields Ultrasound Vacuum Impregnation Membranes Ozone Hurdle Technology Topics Associated with Fruit Preservation Safety Nutrition and Health Consumer Perception Sensory Minimal Processing Packaging Unit Operations for Fruit Processing Cooling and Freezing Dehydration Frying **Selected Topics in Food Process Engineering Oscar A.** Vega-Castro, Ricardo Simpson, María del Pilar Buera, Diana M. Granda-Restrepo, Cristian Camilo Villa Zabala, Magda I. Pinzón-Fandiño, Gustavo Fidel Gutiérrez-López, Gustavo Victor Barbosa-Cánovas, 2025-10-29 This text is based on the invited presentations at the XIII Ibero American Congress of Food Engineering CIBIA XIII which was held in Medell n Colombia in March 2022 Invited presentations were delivered by renowned food engineers worldwide and covered the latest on classic and novel topics driving food process engineering The selected topics are centered on how food process engineering is addressing new challenges related to technical social economic and environmental realities Selected Topics in Food Process Engineering covers important ground in current and future food processing including Food engineering contributions to health environment and quality of life The role of food engineering during pandemics Modeling of food processes Clean technologies for the processing and preservation of foods Alternative thermal and nonthermal processes challenges and opportunities to the food industry Advancesin the characterization of food properties Nanotechnology in food processing

Starch digestion Extraction processes in the food industry Food factory of the future This text serves as an inspirational tool for future research in food engineering and beyond as it promotes the well being of the population in terms of adequate food supply by bridging engineering knowledge the food chain and the fourth industrial revolution

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