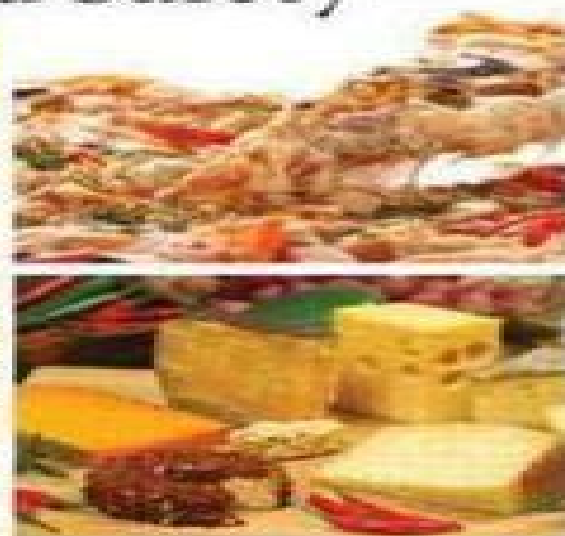


# SPECIALTY FOODS

Processing Technology,  
Quality, and Safety



Edited by Yanyun Zhao

 CRC Press  
Taylor & Francis Group

# Specialty Foods Processing Technology Quality And Safety

**P.J. Fellows**



## **Specialty Foods Processing Technology Quality And Safety:**

**Specialty Foods** Yanyun Zhao,2012-05-22 Specialty foods are made from high quality ingredients and offer distinct features to targeted customers who pay a premium price for their perceived benefits The rise in production and sale of these foods has increased concerns over product quality and safety Specialty Foods Processing Technology Quality and Safety explores how these foods dif

**Specialty Foods** Yanyun Zhao,2012-05-22 Specialty foods are made from high quality ingredients and offer distinct features to targeted customers who pay a premium price for their perceived benefits The rise in production and sale of these foods has increased concerns over product quality and safety Specialty Foods Processing Technology Quality and Safety explores how these foods differ from other food sectors and describes their specific processing technologies the equipment used to produce them and steps taken to ensure their quality and microbial safety The book begins by describing various types of specialty foods their regulation and the major trends guiding the specialty food industry It examines the diverse specialty foods marketplace and the strategies and practices that entrepreneurs must understand to be successful specialty food marketers It also discusses internationally recognized food safety programs and examples of implemented food safety controls Next the book presents sharply focused chapters on specific foods Bread including whole wheat multigrain seed sourdough organic gluten free and reduced sodium as well as functional baked goods Specialty condiments dressings and sauces Jams jellies and other jelly products Chocolate including diet friendly allergen free dark gourmet and kosher Dairy products including specialty cheese yogurt and other cultured products Juices and functional drinks Specialty fruit and vegetable products Specialty entrees meats convenience foods soups and other miscellaneous items The final chapter provides additional information and resources for entrepreneurs including sections on small scale food processing equipment and packaging Innovators in the food industry will find this resource an invaluable guide to a range of issues critical to the specialty food sector

**Functional Foods** Sajad Ahmad Wani,Mohamed S. Elshikh,Mona S. Al-Wahaibi,Haroon Rashid Naik,2023-11-06 It is reported Functional foods are highly nutritious and associated with a number of powerful health benefits They may protect against disease prevent nutrient deficiencies and promote proper growth and development Functional Foods Technological Challenges and Advancement in Health Promotion presents information related to bioactive compounds present in the functional foods derived from fruits and vegetables cereals and pulses dairy and meat herbs and spices and other foods It describes novel techniques and methodologies used in the extraction isolation encapsulation identification and characterization of bioactive compounds Key Features Covers the most recent research related to the bioactive compounds present in the functional foods Presents the latest information on extraction isolation encapsulation identification and characterization Discusses formulation challenges with an emphasis on stability and safety evaluations of functional foods Finally it includes substantial and scientific research and innovation for new product development with health benefits This book will serve as a valuable resource for researchers academicians and

students interested in many aspects of functional foods      **Handbook of Vegetable Preservation and Processing** Y. H. Hui, E. Özgül Evranuz, 2015-11-05 The second edition of a bestseller Handbook of Vegetable Preservation and Processing compiles the latest developments and advances in the science and technology of processing and preservation of vegetables and vegetable products It includes coverage of topics not found in similar books such as nutritive and bioactive compounds of vegetables veg      **Food Processing Technology** P.J. Fellows, 2000-07-11 The first edition of Food Processing Technology was quickly adopted as the standard text by many food science and technology courses While keeping with the practice of covering the wide range of food processing techniques this new edition has been substantially expanded to take account of the advances in technology that have taken place since the publication of the first edition The Second Edition includes new chapters on computer control of processing novel minimal technologies and Ohmic heating and an extended chapter on modified atmosphere packaging It is a comprehensive yet basic text that offers an overview of most unit operations while at the same time providing details of the processing equipment operating conditions and the effects of processing on the biochemistry of foods The book is divided into five parts in which unit operations are grouped according to the nature of the heat transfer that takes place Each chapter describes the formulae required for calculation of processing parameters sample problems and the effects on sensory characteristics and nutritional properties of selected foods By combining food processing theory and calculations with descriptions of commercial practice and results of scientific studies Food Processing Technology Principles and Practice Second Edition helps readers make attractive saleable products and extend the shelf life of foods      *Agricultural Science & Technology in China: A Roadmap to 2050* Qiguo Zhao, Jikun Huang, 2011-10-20 As one of the eighteen field specific reports comprising the comprehensive scope of the strategic general report of the Chinese Academy of Sciences this sub report addresses long range planning for developing science and technology in the field of agriculture They each craft a roadmap for their sphere of development to 2050 In their entirety the general and sub group reports analyze the evolution and laws governing the development of science and technology describe the decisive impact of science and technology on the modernization process predict that the world is on the eve of an impending S T revolution and call for China to be fully prepared for this new round of S T advancement Based on the detailed study of the demands on S T innovation in China s modernization the reports draw a framework for eight basic and strategic systems of socio economic development with the support of science and technology work out China s S T roadmaps for the relevant eight basic and strategic systems in line with China s reality further detail S T initiatives of strategic importance to China s modernization and provide S T decision makers with comprehensive consultations for the development of S T innovation consistent with China s reality Supported by illustrations and tables of data the reports provide researchers government officials and entrepreneurs with guidance concerning research directions the planning process and investment Founded in 1949 the Chinese Academy of Sciences is the nation s highest academic institution in natural sciences Its major responsibilities are to

conduct research in basic and technological sciences to undertake nationwide integrated surveys on natural resources and ecological environment to provide the country with scientific data and consultations for government's decision making to undertake government assigned projects with regard to key S T problems in the process of socio economic development to initiate personnel training and to promote China's high tech enterprises through its active engagement in these areas

Food Processing and Preservation Technology Megh R. Goyal, Santosh K. Mishra, Preeti Birwal, 2022-04-27 Food Processing and Preservation Technology Advances Methods and Applications confronts the challenges of food preservation by providing new research and information on the use of novel processing and preservation technologies during production processing and transportation in the food industry for the improvement of shelf life and the safety of foods The book is organized in two main parts The first section focuses on novel and nonthermal processing of food and food products It looks at dielectric heating and ohmic heating as well as three dimensional printing of foods and ozonization of food products Part two delves into process interventions for food processing and preservations discussing the applications of diverse novel food processing The authors discuss drying technologies advances in food fermentation technologies mechanization of traditional indigenous products for preservation of food and safety and different properties and concepts of bakery products Key features Examines different properties and attributes of some bakery foods etc Elucidates on novel nonthermal processing techniques and their mechanisms of actions for minimal loss of food nutrients and for food safety Discusses a variety of modern technologies that aim to reduce the spoilage of food products This volume presents valuable research on food processing quality control and safety measures for food products by means of novel processing and preservation technologies during production processing and transportation in the food industry

*Sustainable and Functional Foods from Plants* Megh R. Goyal, Arijit Nath, Zoltán Kovács, 2024-06-28 Structured into four main parts this book navigates the intersection between food and functionality of plant based products and provides insight into the nutritional composition of some key elements of plant based diets The book also introduces the most abundant adulteration practices and points out the analytical methods of quality monitoring their current trends and their potential future applications The volume first looks at plant based sustainable health foods with a primary focus on millets their nutritional and health benefits as well as their potential as food security crops The chapters also shed some light on demographics of millet production and discuss the impact of processing on the nutritional and organoleptic attributes of millet based products New advances in production quality determination and functional health benefits of two globally renowned beverages wine and beer are discussed while mapping consumption trends and consumers expectations and preferences Sustainable and Functional Foods from Plants also explores some ethnic foodstuffs ingredients and condiments of functional importance for the cuisines of African European and Far Eastern countries and then looks at the potential of bioactive compounds in medicinal foods and measurement techniques for quality of natural foods The book will be informative for upper level students as well as for food science teaching staff researchers

and industrial personnel interested in theoretical and practical knowledge about sustainable and functional foods from plants

**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 **Thermal vs. Non-Thermal**

**Food Processing Methods** Sitara Nambeesan, 2025-01-03 Thermal vs Non Thermal Food Processing Methods explores the essential techniques employed in the modern food industry to ensure food safety and quality We cover various thermal processing methods such as pasteurization sterilization canning and drying alongside non thermal methods using ultrasound and radio frequency waves Our book provides detailed explanations of each process the equipment used and the overall food processing workflow By understanding these methods readers can gain valuable insights into how food is processed and made safe for consumption This comprehensive guide is perfect for students professionals and anyone interested in the food processing industry We aim to equip readers with the knowledge needed to excel in this field

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