

**New Developments in Refrigeration
for Food Safety and Quality**



**Derniers Progrès en Matière de Froid
pour la Sécurité et la Qualité Alimentaires**

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New Developments In Refrigeration For Food Safety And Quality

Da-Wen Sun



New Developments In Refrigeration For Food Safety And Quality:

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

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

Food Safety and Quality United States. General Accounting Office, 1993

Derniers Progrès en Matière de Froid Pour la Sécurité Et la Qualité Alimentaires , 1996-01-01 **Food**

Safety and Quality DIANE Publishing Company,1995-04 *Fruit and Vegetable Quality* Robert L. Shewfelt,Bernhard Bruckner,2000-04-18 Improved quality requires integration across business functions and scientific disciplines Based on this premise *Fruit and Vegetable Quality An Integrated View* presents 15 unique perspectives on achieving greater quality and guidance for a more integrated approach to postharvest handling and fruit and vegetable research Designed for anyo

Emerging Technologies for Shelf-Life Enhancement of Fruits Basharat Nabi Dar,Shabir Ahmad Mir,2020-05-05 Focusing on new technological interventions involved in the postharvest management of fruits this volume looks at the research on maintaining the quality of fruits from farm to table The volume examines the factors that contribute to shortening shelf life as well as innovative solutions to maintaining quality while increasing the length of time fruit remains fresh nutritious and edible The volume considers the different needs of the diversity of fruits and covers a variety of important topics including factors affecting the postharvest quality of fruits microbial spoilage decontamination of fruits by non thermal technologies new kinds of packaging and edible coatings ozone as shelf life extender of fruits *Emerging Technologies for Shelf Life Enhancement of Fruits* considers the fundamental issues and will be an important reference on shelf life extension of fruits Highlighting the trends in future research and development it will provide food technologists food engineers and food industry professionals with new insight for prolonging the shelf life of fruits Integrated View of Fruit and Vegetable Quality Wojciech J Florkowski,2018-01-18 This book focuses on quality of produce by addressing its various aspects By applying a disciplinary perspective we work toward an integrated view placing papers in the broader context of the processes that are responsible for the supply of fresh produce While a number of technical papers focus on factors affecting quality policy issues are also discussed Several papers link the market performance with the ability of the existing institutional structures to provide incentives to supply the optimal quality produce The topics covered in this contributed volume address quality issues ranging from cultural practices to postharvest handling retailing and home consumption Perspectives of horticulturists agronomists food scientists engineers and economists should be looked upon as a system applied to solve practical problems faced by scientists the produce industry and policy makers The immediate benefit of this book is improved understanding of specific quality issues and marketing problems while suggesting the need for a multidisciplinary approach for optimal solutions This book is of interest to horticulturists agronomists food scientists engineers and economists as well as the produce industry and policy makers in food quality and safety Abstracts of Funded Research National Research Initiative Competitive Grants Program (United States. Cooperative State Research Service),1996 **Tropical Fruits, Volume 1, 3rd Edition** Robert E. Paull,Odilo Duarte,2025-05-28 Over the past few years there has been an increase in the variety of tropical fruits available for consumption due to improved breeding postharvest management and distribution systems The production and world trade of fresh tropical fruits is expected to expand further aided by consumer demand for healthy diets and for trying new foods The third edition of this book covers major tropical

fruits such as avocado banana litchi mango papaya and pineapple The first five chapters describe general aspects of the tropical climate and its soils fruit production techniques tree management and postharvest handling Following these are self contained chapters on single fruits that provide in depth studies of botany taxonomy varieties propagation orchard management biotic and abiotic problems and utilization The ancient and modern propagation and cultural practices are described to show the regional differences that environmental and biological pressures exert on fruit production and fruit quality Tropical Fruits 3rd edition is essential reading for students and teachers of horticulture and tropical agriculture as well as for horticultural industry personnel

Food Packaging Rui M. S. da Cruz,2019-11-11 Food Packaging Innovations and Shelf life covers recently investigated developments in food packaging and their influence in food quality preservation shelf life extension and simulation techniques Additionally the book discusses the environmental impact and sustainable solutions of food packaging This book is divided into seven chapters written by worldwide experts The book is an ideal reference source for university students food engineers and researchers from R D laboratories working in the area of food science and technology Professionals from institutions related to food packaging

The Stability and Shelf-Life of Food Persis Subramaniam,David Kilcast,2000-08-24 The stability and shelf life of a food product are critical to its success in the market place yet companies experience considerable difficulties in defining and understanding the factors that influence stability over a desired storage period This book is the most comprehensive guide to understanding and controlling the factors that determine the shelf life of food products

Development and evaluation of iodine biofortification strategies for vegetables Patrick Lawson,2014 Iodine is an essential trace element for humans which is not ingested in sufficient quantities in many regions of the world In spite of the wide use of iodized table salt large portions of the German population are still inadequately supplied with the trace element Therefore further efforts are needed to improve the alimentary intake of iodine The aim of this dissertation was to develop an agronomical biofortification strategy for enriching vegetables with iodine by means of fertilization with iodine salts Hence foliar and soil application approaches were implemented and compared using a selection of different vegetable species in order to detect the influence of various environmental application and soil factors affecting the iodine uptake by plants

ASHRAE Handbook ,1998 Berry Fruit Yanyun Zhao,2007-06-06 Valued for its unique flavors textures and colors berry fruit is a rapidly growing crop that provides significant health benefits due to its many bioactive components Berry Fruit Value Added Products for Health Promotion provides an understanding of the functional chemicals shelf life and microbial safety concerns and applications in the food industry Written by international experts each chapter presents scientific background research results critical reviews of relevant issues and case studies Chapters include worldwide production information bioactive food constituents and their potential health benefits methods of enhancing food quality and potential uses of berry processing by products

Engineering for Storage of Fruits and Vegetables Chandra Gopala Rao,2015-08-04 Engineering for Storage of Fruits

and Vegetables is a comprehensive reference that provides an understanding of the basic principles of cold storage load estimation refrigeration capacity calculations for various types of cold storages and other topics of evaporative cooling thus demonstrating the important principles for designing low cost precooling chambers The book is written in an accessible manner to provide a solid understanding of different environments and their considerations to give readers the confidence they need to design suitable packaging materials by understanding parameters including reaction rates deteriorative reactions Arrhenius equations Q10 K D Z parameters and their influence on reaction rates Covers a wide variety of related topics from post harvest physiology of fruits and vegetables to the various aspects of controlled atmosphere storages Explains the application of water activities and enzyme kinetics for predicting shelf life of foods and design of packaging materials Includes solved problems and exercises which guide students and assist with comprehension Energy Efficient Technologies for Food Safety, Quality, and Security Hamad, Ahmed Alhussaini, Singh, Pallavi, Saxena, Dipali, Haghi, A.K., 2025-05-13 Safety in the food industry is of paramount importance for ensuring the quality and integrity of food products One of the key issues is maintaining safety and quality as preservation methods become more varied and complex Individual technologies can be combined to achieve the right balance of safety quality and shelf life for particular products A deep understanding of the complexities and innovations in food processing address critical challenges and help chart a course towards a safer and more sustainable food future Energy Efficient Technologies for Food Safety Quality and Security explores the latest advancements in technology aimed at ensuring the safety and quality of our food supply It discusses the mechanisms application conditions and advantages and disadvantages of selected food preservation techniques Covering topics such as food security post harvest packaging and sustainable packaging solutions this book is an excellent resource for food safety consultants auditors and practitioners policymakers professionals researchers scholars academicians and more

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

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 Postharvest Technology of Horticultural Crops: Cooling and Storage James F. Thompson, Irwin R. Donis-González, Tom Rumsey, Farzaneh Khorsandi, Erin DiCaprio, 2023-12-21 About one third of fresh produce harvested worldwide is lost at various points in the distribution system between production and consumption While it is impossible and uneconomical to eliminate these losses completely it is possible to reduce them by at least half and increase food availability The first chapter of this volume describes both proper temperature management practices for perishable commodities and the commercially used methods for cooling fruit vegetables and cut flowers It is written for a person who is initially investigating produce cooling a professional designer who needs design details and an operator who wants a better understanding of practical operation guidelines The chapter contains a complete discussion of design for forced air coolers hydrocoolers and vacuum coolers the most commonly used cooling methods that people with a good background in industrial refrigeration can design The second chapter is an overview of cold storage for perishables It describes the unique issues associated with designing a cold storage for perishables Worker safety and food safety for cooling and storage systems have become important issues for the industry and they are discussed in chapters 3 and 4 The volume concludes with chapter 5 which describes the effects of air temperature and humidity on postharvest quality and temperature and humidity measurement methods

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