

Processing of fresh-cut tropical fruits and vegetables A TECHNICAL GUIDE



PROCESSING OF FRESH-CUT TROPICAL FRUITS AND VEGETABLES

A technical guide

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Technical Guide For Fresh Cut Fruits

Charis M. Galanakis



Technical Guide For Fresh Cut Fruits:

Handbook of Food Processing Theodoros Varzakas, Constantina Tzia, 2015-10-22 Packed with case studies and problem calculations Handbook of Food Processing Food Safety Quality and Manufacturing Processes presents the information necessary to design food processing operations and describes the equipment needed to carry them out in detail It covers the most common and new food manufacturing processes while addressing rele **Fresh-Cut Fruits and Vegetables** Mohammed Wasim Siddiqui, 2019-11-10 Fresh Cut Fruits and Vegetables Technologies and Mechanisms for Safety Control covers conventional and emerging technologies in one single source to help industry professionals maintain and enhance nutritional and sensorial quality of fresh cut fruits and vegetables from a quality and safety perspective The book provides available literature on different approaches used in fresh cut processing to ensure safety and quality It discusses techniques with the aim of preserving quality and safety in sometimes unpredictable environments Sanitizers antioxidants texturizers natural additives fortificants probiotics edible coatings active and intelligent packaging are all presented Both advantages and potential consequences are included to ensure microbial safety shelf life stability and preservation of organoleptic and nutritional quality Industry researchers professionals and students will all find this resource essential to understand the feasibility and operability of these techniques in modern day processing to make informed choices Provides current information on microbial infection quality preservation and technology with in depth discussions on safety mechanisms Presents ways to avoid residue avoidance in packaging and preservation Includes quality issues of microbial degradation and presents solutions for pre harvest management Postharvest Technology of Horticultural Crops : Fresh-Cut and Processed Horticultural Products Marita I. Cantwell, Diane M. Barrett, 2023-12-21 Fresh cut products are estimated to account for about 18 to 20 percent of the value of fresh fruit and vegetables marketed through retail and food service channels in the United States From salad mixes to baby carrots broccoli and cauliflower florets to slaw mixes these products continue to grow in popularity with consumers For the consumer fresh cut fruit and vegetables offer several potential benefits They can reduce meal preparation time provide more uniform quality and increase access to healthy produce For the processor successful fresh cut products can actually be more cost effective because of reduced waste for the end user Concerns about fresh cut products include their variable shelf life the need for temperature control microbial food safety and inconsistent overall product quality including flavor and nutrition Whereas most food processing techniques stabilize products and lengthen their storage and shelf life fresh cut processing increases the perishability of fruit and vegetables This volume addresses the physiology of fresh cut fruits and vegetables treatments for maintaining quality optimal storage temperatures and modified atmospheres The chapter on processed products covers the principles of horticultural crop preservation the importance of raw material quality and common unit operations and technologies used for processing horticultural crops The advantages and disadvantages of various technologies are addressed followed by general information on packaging 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 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 Safety and Protection V* Ravishankar Rai,Jamuna A Bai,2017-09-18 This book provides an overview of issues associated primarily with food safety shelf life assessment and preservation of foods Food safety and protection is a multidisciplinary topic that focuses on the safety quality and security aspects of food Food safety issues involve microbial risks in food products foodborne infections and intoxications and food allergenicity Food protection deals with trends and risks associated with food packaging advanced food packaging systems for enhancing product safety the development and application of predictive models for food microbiology food fraud prevention and food laws and regulations with the aim to provide safe foods for consumers Food Safety and Protection covers various aspects of food safety security and protection It discusses the challenges involved in the prevention and control of foodborne illnesses due to microbial spoilage contamination and toxins It starts with documentation on the microbiological and chemical hazards including allergens and extends to the advancements in food preservation and food packaging The book covers new and safe food intervention techniques predictive food microbiology and modeling approaches It reviews the legal framework regulatory agencies and laws and regulations for food protection The book has five sections dealing with the topics of predictive microbiology for safe foods food allergens contaminants and toxins preservation of foods food packaging and food safety laws Global Safety of Fresh Produce Jeffrey Hoorfar,2014-02-14 Continuing food poisoning outbreaks around the globe have put fresh produce safety at the forefront of food research Global Safety of Fresh Produce provides a detailed and comprehensive overview of best practice for produce safety throughout the food chain and unique coverage of commercial technologies for fresh produce safety Part one covers the production and regulation of fresh produce on the agricultural level including issues of niche farm fresh products FDA regulation and zoonotic transfer of pathogens from animals to farm products Part two moves on to look at safety and environmental issues surrounding fresh produce processing such as postharvest washing alternative sanitizers and using produce waste as animal feed Part three focuses on current and emerging commercial solutions for fresh produce safety like ionizing radiation and edible coatings and part four covers methods of laboratory testing and related legislation The final section of the book covers a series of case studies of fresh produce safety breaches including European E coli outbreaks in sprouts and leafy greens and the illegal use of fluorescent

whitening agents FWAs in China This book is an essential text for R D managers in the fresh produce industry quality control professionals working with fresh produce throughout the food chain postgraduate students and academic researchers with an interest in fresh produce safety Provides a comprehensive overview of best practice for produce safety Examines the production and regulation of fresh agricultural produce Looks at safety and environmental issues surrounding fresh produce processing

Food Losses, Sustainable Postharvest and Food Technologies Charis M. Galanakis, 2021-05-19 The urgent need for sustainability within the food producing industries and agriculture has turned the interest of research to investigate new non thermal technologies nanotechnologies and other practices in postharvest treatment of crops and fruits Subsequently there is a need for a new guide covering the latest developments in this particular direction Food Losses Sustainable Postharvest and Food Technology provides solutions to postharvest treatment technologies It explores modern non thermal technologies focusing on postharvest losses and quality of fresh cut products In addition it discusses the implications for postharvest technology research policies and practices It also focuses on the most recent advances in the field while it explores the potentiality and sustainability of already commercialized processes and products Aimed at professionals working in the food industry and agriculture it could also be utilized as a handbook for anyone dealing with sustainability issues of food production in spite of postharvest treatment Thoroughly explores modern non thermal technologies in postharvest treatment Discusses the implications for postharvest technology research policies and practices Analyzes the potentiality and sustainability of already commercialized processes and products

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 Nutraceuticals and Medical foods for human

Food Processing and Packaging Technologies Jaya Shankar Tumuluru,2023-04-05 Food processing preservation and packaging is a highly interdisciplinary science Various techniques and technologies have been developed to extend food shelf life minimize the risk of contamination protect the environment and improve foods functional sensory and nutritional properties Some of the many benefits of food processing preservation and packaging include increased food safety improved nutrition longer shelf life and increased economic opportunities In addition food processing and preservation help to reduce post harvest losses Developing novel food processing preservation and packaging technologies is critical to preserving food quality improving sensory characteristics and reducing losses At present there is a great emphasis on developing novel biobased and intelligent packaging technologies that are safe for food and reduce environmental pollution This book provides a comprehensive overview of food processing and preservation packaging to tackle the challenges of food safety nutritional security and sustainability Chapters address such topics as edible packaging materials intelligent packaging materials nanotechnology for enhancing the shelf life of food products advanced food packaging systems green materials for food packaging antimicrobial packaging materials food drying technologies methods of food processing food analysis using acoustic and thermal methods food formulations and functional foods This volume is a useful resource for students researchers and food processing preservation professionals It highlights advances in food processing and packaging systems to increase food quality and preserve food longer without generating waste

Handbook of Pineapple Technology Maria Gloria Lobo,Robert E. Paull,2017-02-06 Pineapple is the third most important tropical fruit in the world with production occurring throughout the tropics The demand for low acid fresh pineapples and its processed products is one of the fastest growing markets especially in Europe and North America This book provides an in depth and contemporary coverage of knowledge and practices in the value chain of this popular fruit from production through to consumption The chapters explore all the most recent developments in areas such as breeding novel processing technologies postharvest physiology and storage packaging nutritional quality and safety aspects An outstanding team of authors from across the globe have contributed to make this the definitive pineapple handbook Handbook of Pineapple Technology Production Postharvest Science Processing and Nutrition is the ultimate guide for scientists in the food industries specializing in fruit processing packaging and manufacturing It is also a useful resource for educators and students of food technology and food sciences as well as research centers and regulatory agencies around the world

Food Additives and Human Health Seyed Mohammad Nabavi,Seyed Fazel Nabavi, Monica Rosa Loizzo,Rosa Tundis, K. Pandima Devi,Ana Sanches Silva,2020-04-17 INTRODUCTION This reference is

a detailed guide to the world of food additives commonly used in the food processing and manufacturing industry Edited by experts in the field invited scholars enrich the book with relevant chapter contributions Chapters provide readers with knowledge on a broad range of food additives anti browning agents essential oils flavour enhancers preservatives stabilizers sweeteners among others their safe use and a summary of their effects on human health Key Features Covers a wide range of natural and synthetic food additives Covers health related topics relevant to food additives Chapters are organized into specific easy to read topics Provides bibliographic references for further reading This book serves a valuable instrument for a broad spectrum of readers researchers health professionals students food science enthusiasts and working professionals in industry and government regulatory agencies interested in the science of food additives **Federal Register** ,2014

Handbook of Fruits and Fruit Processing Nirmal K. Sinha, Jiwan Sidhu, Jozsef Barta, James Wu, M. Pilar Cano, 2012-06-20 HANDBOOK OF FRUITS AND FRUIT PROCESSING SECOND EDITION Fruits are botanically diverse perishable seasonal and predominantly regional in production They come in many varieties shapes sizes colors flavors and textures and are an important part of a healthy diet and the global economy Besides vitamins minerals fibers and other nutrients fruits contain phenolic compounds that have pharmacological potential Consumed as a part of a regular diet these naturally occurring plant constituents are believed to provide a wide range of physiological benefits through their antioxidant anti allergic anti carcinogenic and anti inflammatory properties Handbook of Fruits and Fruit Processing distils the latest developments and research efforts in this field that are aimed at improving production methods post harvest storage and processing safety quality and developing new processes and products This revised and updated second edition expands and improves upon the coverage of the original book Some highlights include chapters on the physiology and classification of fruits horticultural biochemistry microbiology and food safety including HACCP safety and the regulation of fruits in the global market sensory and flavor characteristics nutrition naturally present bioactive phenolics postharvest physiology storage transportation and packaging processing and preservation technologies Information on the major fruits includes tropical and super fruits frozen fruits canned fruit jelly jam and preserves fruit juices dried fruits and wines The 35 chapters are organized into five parts Part I Fruit physiology biochemistry microbiology nutrition and health Part II Postharvest handling and preservation of fruits Part III Product manufacturing and packaging Part IV Processing plant waste management safety and regulations Part V Production quality and processing aspects of major fruits and fruit products Every chapter has been contributed by professionals from around the globe representing academia government institutions and industry The book is designed to be a valuable source and reference for scientists product developers students and all professionals with an interest in this field

Quantitative Methods for Food Safety and Quality in the Vegetable Industry Fernando Pérez-Rodríguez, Panagiotis Skandamis, Vasilis Valdramidis, 2018-02-06 This book focuses on the food safety challenges in the vegetable industry from primary production to consumption It describes existing and innovative quantitative methods that could be applied to the

vegetable industry for food safety and quality and suggests ways in which such methods can be applied for risk assessment. Examples of application of food safety objectives and other risk metrics for microbial risk management in the vegetable industry are presented. The work also introduces readers to new preservation and packaging methods, advanced oxidative processes, AOPs for disinfection, product shelf life determination methods and rapid analytic methods for quality assessment based on chemometrics applications, thus providing a quantitative basis for the most important aspects concerning safety and quality in the vegetable sector. **Encyclopedia of Food and Health**, 2015-08-26, Approx 3876 pages, Approx 3876 pages.

Innovations in Traditional Foods, Charis M. Galanakis, 2019-01-09. *Innovations in Traditional Foods* addresses the most relevant topics of traditional foods while placing emphasis on the introduction of innovations and consumer preferences. Certain food categories such as fruits, grains, nuts, seeds, grains and legumes, vegetables, mushrooms, roots and tubers, table olives and olive oil, wine, fermented foods and beverages, fish, meat, milk and dairy products are addressed. Intended for food scientists, technologists, engineers and chemists working in food science, product developers, SMEs, researchers, academics and professionals, this book provides a reference supporting technological advances, product development improvements and potential positioning in the traditional food market. Addresses the most relevant topics of traditional foods while placing emphasis on the introduction of innovations and consumer preferences. Provides a reference supporting technological advances, product development improvements and potential positioning in the traditional food market. Contains coverage of various food categories including fruits, grains, nuts, seeds, grains and legumes, vegetables, mushrooms, roots and tubers, table olives and olive oil, wine, fermented foods and beverages, fish, meat and milk and dairy products. *Handbook of Fruits and Fruit Processing*, Y. H. Hui, József Barta, M. Pilar Cano, Todd W. Gusek, Jiwan S. Sidhu, Nirmal K. Sinha, 2008-02-28. The processing of fruits continues to undergo rapid change. In the *Handbook of Fruits and Fruit Processing*, Dr Y H Hui and his editorial team have assembled over forty respected academicians and industry professionals to create an indispensable resource on the scientific principles and technological methods for processing fruits of all types. The book describes the processing of fruits from four perspectives: a scientific basis, manufacturing and engineering principles, production techniques and processing of individual fruits. A scientific knowledge of the horticulture, biology, chemistry and nutrition of fruits forms the foundation. A presentation of technological and engineering principles involved in processing fruits is a prelude to their commercial production. As examples, the manufacture of several categories of fruit products is discussed. The final part of the book discusses individual fruits, covering their harvest to a finished product in a retail market. As a professional reference book replete with the latest research or as a practical textbook filled with example after example of commodity applications, the *Handbook of Fruits and Fruit Processing* is the current comprehensive yet compact resource ideal for the fruit industry.

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 interdisciplinary 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 *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

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