

Production Practices and Quality Assessment of Food Crops

Volume 3

Production Practices And Quality Assessment Of Food Crops Volume 3

**Megh R. Goyal, Suvartan Ranvir, Junaid
Ahmad Malik**



Production Practices And Quality Assessment Of Food Crops Volume 3:

Quality Handling and Evaluation Ramdane Dris, S. Mohan Jain, 2004-01-31 This book covers various aspects of quality handling and assessment including handling parameters quality evaluation CA and MAP storage conditions in a broad sense It emphasises on developing better methods of monitoring quality and safety attributes of fresh produce as part of a quality assurance system and quality assessment and maintenance

Quality Handling and Evaluation Ramdane Dris, S. Mohan Jain, 2007-05-08 Food quality is becoming an ever increasing important feature for consumers and it is well known that some food crops are perishable and have a very short shelf and storage life An effective quality assurance system throughout the handling steps between harvest and retail display is essential to provide a consistently good quality supply of fresh food crops to the consumers and to protect the reputation of a given marketing label Food manufacturing companies all over the world are increasingly focussing on quality aspect of food including minimally processed food to meet consumer demands for fresh like and healthy food products To investigate and control quality one must be able to measure quality related attributes Quality of produce encompasses sensory attributes nutritive values chemical constituents mechanical properties functional properties and defects Successful postharvest handling of crops requires careful coordination and integration of the various steps from harvest operations to consumer level in order to maintain the initial product quality Maturity at harvest is one feature of quality of perishable products it has great influence on their postharvest behavior during marketing Safety assurance can be part of quality assurance and its focus on minimizing chemical and microbial contamination during production harvesting and postharvest handling of intact and fresh cut of commodities Essentially electromagnetic often optical properties relate to appearance mechanical properties to texture and chemical properties to flavor taste and aroma

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 Seafood Quality, Safety and Health Applications](#) Cesaretti Alasalvar, Kazuo Miyashita, Fereidoon Shahidi, Udaya Wanasundara, 2011-06-15 The global market for seafood products continues to increase year by year Food safety considerations are as crucial as ever in this sector and higher standards of quality are demanded even as products are shipped greater distances around the world The current global focus on the connection between diet and health drives growth in the industry and offers commercial opportunities on a number of fronts There is great interest in the beneficial effects of marine functional compounds such as omega 3 polyunsaturated fatty acids Seafoods are well known as low calorie foods and research continues into the nutritional effects on for example obesity and heart disease In addition by products of marine food processing can be used in nutraceutical applications This book is a resource for those interested in the latest

advances in the science and technology of seafood quality and safety as well as new developments in the nutritional effects and applications of marine foods It includes chapters on the practical evaluation of seafood quality novel approaches in preservation techniques flavour chemistry and analysis textural quality and measurement packaging the control of food borne pathogens and seafood toxins New research on the health related aspects of marine food intake are covered as well as the use of seafoods as sources of bioactives and nutraceuticals The book is directed at scientists and technologists in academia government laboratories and the seafood industries including quality managers processors and sensory scientists

Advances in Food Biochemistry Fatih Yildiz,2009-12-16 Understanding the biochemistry of food is basic to all other research and development in the fields of food science technology and nutrition and the past decade has seen accelerated progress in these areas *Advances in Food Biochemistry* provides a unified exploration of foods from a biochemical perspective Featuring illustrations to elucidate m **Postharvest Biology and Technology for Preserving Fruit Quality** Daniel Valero,Maria Serrano,2010-05-12 Interest in the postharvest behavior of fruits and vegetables has a history as long as mankind s Once we moved past mere survival the goal of postharvest preservation research became learning how to balance consumer satisfaction with quantity and quality while also preserving nutritional quality A comprehensive overview of new postharvest techno *Advances in Food Process Engineering* Megh R. Goyal,N. Veena,Ritesh B. Watharkar,2023-05-04 This new volume highlights a selection of novel applications for food processing food preservation and food decontamination methods It discusses the principles benefits and techniques used and presents recent developments and applications of ultrasonication It explores supercritical fluid extraction and supercritical fluid chromatography extrusion technology advanced drying and dehydration technologies and encapsulation methods as important tools in the processing of food It addresses the basic membrane processing technologies along with their advantages and disadvantages The volume presents the application and use of mathematical models for measuring and regulating fermentation procedures It also provides an understanding of how the hydration kinetics of grains can help in optimization and scaling of processes on a large industrial scale Topics on decontamination methods for foods are included such as an overview of concepts basic principles potential applications and prospects and limitations of cold plasma technology and irradiation in the food processing sector

Nonthermal Plasma Technology for Food and Food Products R. Mahendran,Preeti Birwal,Megh R. Goyal,2025-04-15 Cold plasma technology in the food industry is increasingly being adopted for its effective decontamination of food from foodborne pathogens and for its ability for enhanced pest mitigation in stored products This new volume explores the techniques and methods of processing food products without subjecting them to heat treatment using the promising cutting edge technology of cold plasma for food preservation and food safety The book discusses the design and generation of cold plasma along with the interaction with food molecules and covers applications in agri food systems such as in solid foods liquid foods and food packaging It presents the effects of cold plasma on starch modification food surface modification and its influence on toxin

reduction It also reports on advances and research being conducted to deal with simulation modeling and emerging other combination technologies A chapter also reports on adopting cold plasma for spaceflight grown produce **Advances in Sustainable Food Packaging Technology** Megh R. Goyal,Preeti Birwal,Anand Kumar Pandey,Ritesh Balaso

Watharkar,2024-02-13 This new volume explores the recent innovations in active intelligent and smart packaging systems that embrace packaging potential to not only provide protection to food but to also improve its nutritive value reduce contamination by releasing antimicrobials and provide real time status of food quality The book presents novel edible food packaging nanotechnology based improvements in food packaging and biodegradation and bio based approaches for management of food waste and plastic waste from packaging *Enzyme Inactivation in Food Processing* Megh R.

Goyal,Junaid Ahmad Malik,Ravi Pandiselvam,2023-08-04 Enzyme inactivation in fruits and vegetables is of utmost importance regarding food quality during storage This new volume explores important emerging technologies for the inactivation of enzymes in the design and preservation of food The book covers the basic concepts and chemical methods and then introduces novel processing technologies for inactivating food enzymes The new technologies are many pulsed electric field ultraviolet and light emitting diodes ohmic heating dense phased carbon dioxide cold plasma ultrasonication microwave processing radiofrequency extraction and others The volume also looks at the design of nutraceutical based functional foods specific foods for gut microbiodata the use of omega 3 fatty acids to fortify food products and the characteristics of dairy based dry powders and characteristics of millet starches It also considers the role of the bioactive compounds and metal ions for catalases secreted by medicinal plants and mushrooms for enzyme inactivation and biosensing along with the role of bionanomaterials in nanoencapsulation and catalysis *Nonthermal Light-Based Technologies in Food Processing* C. K.

Sunil,Megh R. Goyal,Preeti Birwal,R. Mahendran,2025-02-10 Food preservation has existed since time immemorial with techniques that focused on prolonging shelf life of food products The current challenge though is to preserve food in terms of loss of nutrients texture and sensorial characteristics along with prolonging its shelf life This new volume Nonthermal Light Based Technologies in Food Processing explores and provides in depth knowledge and understanding of current and emerging light based technologies and their application in food processing This book also introduces the role of nonthermal technology for novel food product development In four detailed parts this handbook covers light based technologies ultraviolet UV light technology pulsed light PL technology and light emitting diode LED technology It details a range of modern and emerging light based food preservation technologies that include ozone ohmic heading high pressure processing cold plasma pulsed electric field PEF microwave irradiation light based technologies ultraviolet pulsed light light emitting diode LED supercritical fluid extraction cold plasma and more Each technology is thoroughly covered starting with an introduction and proceeding to design applications and quality and regulatory aspects providing comprehensive knowledge and detailed explanations This book will be a valuable resource on nonthermal light based technologies in food processing for

many academicians and professionals in the field of food science food technology and food engineering around the world It will also act as an important reference for researchers students scholars industries universities and research centers

Advances in Fresh-Cut Fruits and Vegetables Processing Olga Martin-Belloso,Robert Soliva Fortuny,2010-10-21 Despite a worldwide increase in demand for fresh cut fruit and vegetables in many countries these products are prepared in uncontrolled conditions and have the potential to pose substantial risk for consumers Correspondingly researchers have ramped up efforts to provide adequate technologies and practices to assure product safety while keeping n **Postharvest**

Physiological Disorders in Fruits and Vegetables Sergio Tonetto de Freitas,Sunil Pareek,2019-01-15 This book chock full of color illustrations addresses the main postharvest physiological disorders studied in fruits and vegetables For a wide variety of fruits and vegetables Postharvest Physiological Disorders in Fruits and Vegetables describes visual symptoms triggering and inhibiting mechanisms and approaches to predict and control these disorders after harvest Color photographs illustrate the disorders important factors physiology and management The book includes a detailed description of the visual symptoms triggering and inhibiting mechanisms and possible approaches to predict and control physiological disorders The mechanisms triggering and inhibiting the disorders are discussed in detail in each chapter based on recent studies which can help readers better understand the factors regulating each disorder The description of possible approaches to predict and control each disorder can help growers shippers wholesalers and retailers to determine the best management practices to reduce disorder incidence and crop losses Features Presents visual symptoms of postharvest physiological disorders that will help readers to precisely identify the disorders in fruits and vegetables Details mechanisms triggering and inhibiting the postharvest disorders Explains possible approaches to predict and control these disorders Suggests the best postharvest management approaches for each crop Although there are many scientific publications on postharvest physiological disorders there are no recent reviews or books putting together the most recent information about the mechanisms regulating as well as about the possible approaches to predict and control these disorders **Sustainable Green**

Nanomaterials Shrikaant Kulkarni,Megh R. Goyal,2024-11-22 Green nanomaterials are in great demand as natural substitutes to conventional chemical based eco toxic materials in fabricating numerous eco friendly products that are biodegradable and biocompatible and eco benign for a plethora of applications in biomedicine textiles agriculture and many other industries This new book Sustainable Green Nanomaterials Synthesis Characterization and Engineering Applications presents an overview of fabrication testing and utility of green nanomaterials in sustainable agriculture smart drug delivery wastewater treatment and healthcare The first section of the book is devoted to the synthesis characterization and general applications of green nanomaterials looking specifically at electrospun polymer nanofibers and carbon quantum dots The book goes on to introduce applications of green nanomaterials such as green polymeric nanocomposites green nanocarriers etc in crucial areas such as agriculture healthcare and wastewater treatment It also looks at the use of artificial intelligence

and machine learning for removal of heavy metals from water using green nanomaterials A section is devoted to the applications of green nanomaterials in drug delivery for targeted drug delivery It also considers the use of nanotools for delivery of anticancer drugs This volume will be a valuable resource for academicians research scholars and others in the scientific community who are investing their time and energy in designing and developing novel state of the art and sustainable nanomaterials in tandem with meeting the objectives of sustainable development goals **Nanotechnology**

Applications in Agricultural and Bioprocess Engineering Megh R. Goyal, Santosh K. Mishra, Lohith Kumar

Dasarahalli-Huligowda, 2022-06-15 This new volume looks at new research and advances in the use of nanotechnology applications in agricultural and bioprocess engineering The first section deals with the impact of nanotechnology in agricultural engineering looking at the role of nanomaterials in plant growth and nutrition It goes on to discuss specific methods and processes in the development of food products nutraceuticals and therapeutics This includes nanotechnological methods for iron fortification of dairy food for processing and preservation of meat and meat products for selective targeting of cancer and more The book then discusses the role of nanotechnology in bioprocessing such as for biofuel production for wastewater treatment and as enzymatic nanoparticles for fabrication processes *The Chemistry of Milk and Milk Products*

Megh R. Goyal, Suvartan Ranvir, Junaid Ahmad Malik, 2023-09-01 Milk and milk products are highly nutritious yet their low acidity provides a favorable environment for growth of pathogenic and spoilage causing organisms To avoid this milk requires specialized processes to be converted into various milk products to ensure safety and quality This new volume provides an understanding of the manufacturing processes of milk products and the structural physicochemical and compositional changes that occur during manufacturing and storage of milk products and the impact on quality It covers methods of conversion of milk into high value concentrated extended shelf life and easily transportable dairy products It delves into the constituents and chemistry physicochemical properties and therapeutic characteristics of milk and milk products and then goes on to present specialized processing methods Specialized methods such as proteolysis in ultra high temperature UHT heat and acid coagulation of milk products processing and characteristics of dry dairy milk powders and methods to monitor pesticide residues in milk and milk products are presented and evaluated **Sustainable**

Nanomaterials for Biomedical Engineering Junaid Ahmad Malik, Megh R. Goyal, Mohamed Jaffer M. Sadiq, 2023-05-12 In recent years nanomaterials have become one of the most dynamic exploration fields in the areas of engineering technology and science This new volume focuses on the use of various bionanomaterials that can be introduced into the body as clinical devices for various medical purposes The book also provides examples of cost effective sustainable alternatives to traditional medical procedures The volume discusses how these materials have diverse applications in the biomedical fields such as for cancer treatment for orthopedic joint replacements for medical diagnosis for making bone plates for wound healing for nerve regeneration for breast implants in dental procedures and so on In addition the book also covers some nonbiomedical

applications of nanobiomaterials such as for example to grow cells in a culture medium as a blood protein test in laboratories etc

Sustainable Nanomaterials for Biosystems Engineering Junaid Ahmad Malik, Megh R. Goyal, Mohamed Jaffer M. Sadiq, 2023-05-04 This new volume explores the integration of bionanomaterials and sustainable resources for the development of new and emerging sustainable processes It highlights the concept of essential bionanomaterials derived from sustainable resources with examples of interdisciplinary methodologies and research that highlight the reuse of biomass waste as well as the proper usage of green technologies The volume considers the most recent trends challenges and applications in bionanomaterials derived from sustainable sources in energy production and environmental mitigation The book looks at state of the art trends in the use of bionanomaterials for renewable energy such as in production of solar energy for energy harvesting and for energy conversion and storage Chapters consider the application of bionanomaterials for the development of improved optical and electrical biosensors The volume goes on to address the promising use of bionanomaterials for environmental remediation such as for recovering heavy metals radioactive metals and other pollutants from wastewater from river water from soils etc Other topics include the use of sustainable nanomaterials in the food industry in the biomedical field in ecological research and more

Advances in Green and Sustainable Nanomaterials Megh R. Goyal, Shrikaant Kulkarni, 2023-07-17 Sustainable development has been gaining momentum in the modern world and the use of nanomaterials in various applications is expanding This volume explores the increasing valuable use of green nanomaterials in energy production and storage in biomedical applications and for agricultural and environmental sustainability Providing an overview of the synthesis characterization and applications of green and sustainable nanomaterials the volume presents a varied selection of examples in practice Key features include Provides valuable information on standard protocols for the synthesis of green nanomaterials Promotes advanced technologies for applications of green and sustainable nanomaterials Demonstrates numerous characterization tools for working with sustainable nanomaterials Explores application areas of the synthesized nanomaterials

Fruits and Vegetables Technologies OP Chauhan, 2025-08-31 This book presents the latest postharvest technologies for fruits and vegetables focusing on the innovations in processing and packaging It reviews various techniques including dehydration low temperature preservation freezing non thermal processing and modified atmosphere packaging Featuring contributions from leading experts the volume also addresses unit operations and minimal processing methods ensuring the quality and longevity of produce Key concepts include the physiology and ripening of fruits and vegetables postharvest handling and non destructive quality monitoring The book also addresses the creation of fruit based products like jams jellies juices and sauces offering insights into both traditional and modern preservation methods Readers will understand the challenges and solutions in maintaining the freshness and nutritional value of produce from farm to table The book is a valuable resource for students researchers and food industry professionals involved in postharvest technology

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