

From Postharvest Management Of Fruit And Vegetables In

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MAYO MAXWELL

Principles and Practices for Quality Maintenance Academic Press
 Postharvest Physiology and Biochemistry of Fruits and Vegetables presents an updated, interrelated and sequenced view of the contribution of fruits and vegetables on human health, their aspects of plant metabolism, physical and chemical/compositional changes during the entire fruit development lifecycle, the physiological disorders and biochemical effects of modified/controlled atmospheres, and the biotechnology of horticultural crops. The book is written specifically for those interested in preharvest and postharvest crop science and the impact of physiological and biochemical changes on their roles as functional foods. Deals with the developmental aspects of the lifecycle in whole fruits Describes issues, such as the morphology and anatomy of fruits, beginning with the structural organization of the whole plant and explaining the fruit structure and its botanical classification Addresses biotechnological concepts that control firmness, quality and the nutritional value of fruits
Innovative Technologies for Food Preservation CRC Press
 Updates the introductory textbook on the principles and practice of the postharvest handling and storage of fresh fruit and vegetables. For technical college and university courses, workers in related industries, and interested consumers. Written in Australia, but about products grown worldwide. Ann
Post-harvest Technologies of Fruits & Vegetables New India Publishing Agency

Postharvest Disinfection of Fruits and Vegetables describes available technologies to reduce microbial infection for maintaining postharvest quality and safety. The book analyzes alternative and traditional methodologies and points out the significant advantages and limitations of each technique, thus facilitating both cost and time savings. This reference is for anyone in the fresh produce industry who is involved in postharvest handling and management. It discusses, in detail, the latest disinfection approaches, low-cost treatment strategies, management and protocols to control fresh produce qualities, diseases and insect infestation. Includes methods to reduce microbial contamination using chlorination, ozone, pulsed light, irradiation and plasma technology Provides practical applications of recently developed, natural anti-microbial agents for eco-friendly and sustainable solutions Explores various disinfection technologies for quality assurance and for the development of potential new technologies

Postharvest Biology and Technology of Horticultural Crops Academic Press

This book presents several pre- and postharvest strategies that have been developed to modify these physiological activities, resulting in increased shelf life. The book also discusses the best technologies that positively influence quality attributes of the produce, including senescence changes and, afterwards, the consumers' decision to purchase the product in the marketplace. With contributions from experts with experience in both developed and developing regions, the book includes chapters covering thorough discussions on postharvest management strategies of fresh horticultural commodities.

Postharvest Management of Horticultural Crops John Wiley & Sons
 The second edition of this very well-received book, which in its first edition was entitled *Postharvest Technology of Fruits and Vegetables*, has been welcomed by the community of postharvest physiologists and technologists who found the first edition of such great use. The book covers, in comprehensive detail, postharvest physiology as it applies to postharvest quality, technology relating to maturity determination, harvesting, packaging, postharvest treatments, controlled atmosphere storage, ripening and transportation on a very wide international range of fruits and vegetables. The new edition of this definitive work, which contains many full colour photographs, provides key practical and commercially-oriented information of great use in helping to ensure that fruit and vegetables reach the retailer in optimum condition, with the minimum of loss and spoilage. Fruits and vegetables, 2nd edition is essential reading for fruit and vegetable technologists, food scientists and food technologists, agricultural scientists, commercial growers, shippers and warehousing operatives and personnel within packaging companies. Researchers and upper level students in food science, food technology, plant and agricultural sciences will find a great deal of use within this landmark book. All libraries in research establishments and universities where these subjects are studied and taught should have copies readily available for users. A. K. Thompson was formerly Professor and head of Postharvest

Technology, Silsoe College, UK.

Postharvest Handling and Diseases of Horticultural Produce Academic Press

This book provides unparalleled integration of fundamentals and most advanced management to make this strawberry crop highly remunerative besides enhancing per capita availability of fruit even in the non-traditional regions of the world.

Strawberries CRC Press

In Indian context.

Inactivation of Spoilage and Pathogenic Microorganisms Elsevier
 "A Handbook on Post Harvest Management of Fruits and Vegetables" deals with the scientific approach to post harvest management of fresh fruits and vegetables with the intention to minimize the post harvest losses. It is a compilation of informations on various aspects of post harvest technology in to a simple handbook. Separate chapters on the importance of harvesting indices of various fruits and vegetables, methods of harvesting, importance of washing and various techniques and types of machines used for washing are covered in the earlier chapters with tables and pictures. Importance of packing fresh fruits and vegetables, its comparative merits and demerits of each material, pre-treatments of fruits and vegetables, different storage techniques and hazards during transportation are covered in the later chapters. This is a brief and valid handbook highly suitable for the students and research workers in the field of Horticulture, Agriculture and Food Science and Technology who are doing post harvest aspect of fruit and vegetables and also those who are engaged in fresh fruits and vegetable handling, packaging and marketing.

Post Harvest Technology of Horticultural Crops CRC Press

Tropical and subtropical fruits are popular products, but are often highly perishable and need to be transported long distances for sale. The four volumes of *Postharvest biology and technology of tropical fruits* review essential aspects of postharvest biology, postharvest technologies, handling and processing technologies for both well-known and lesser-known fruits. Volume 1 contains chapters on general topics and issues, while Volumes 2, 3 and 4 contain chapters focused on individual fruits, organised alphabetically. Volume 1 provides an overview of key factors associated with the postharvest quality of tropical and subtropical fruits. Two introductory chapters cover the economic importance of these crops and their nutritional benefits. Chapters reviewing the postharvest biology of tropical and subtropical fruits and the impact of preharvest conditions, harvest circumstances and postharvest technologies on quality follow. Further authors review microbiological safety, the control of decay and quarantine pests and the role of biotechnology in the improvement of produce of this type. Two chapters on the processing of tropical and subtropical fruit complete the volume. With its distinguished editor and international team of contributors, Volume 1 of *Postharvest biology and technology of tropical and subtropical fruits*, along with the other volumes in the collection, will be an essential reference both for professionals involved in the postharvest handling and processing of tropical and subtropical fruits and for academics and researchers working in the area. Along with the other volumes in the collection, Volume 1 is an essential reference for professionals involved in the postharvest handling and processing of tropical and subtropical fruits and for academics and researchers working in the area Focuses on fundamental issues of fruit physiology, quality, safety and handling relevant to all those in the tropical and subtropical fruits supply chain Chapters include nutritional and health benefits, preharvest factors, food safety, and biotechnology and molecular biology

Manual on Postharvest Handling of Mediterranean Tree Fruits and Nuts CRC Press

Preharvest Modulation of Postharvest Fruit and Vegetable Quality is the first book to focus on the potential yield quality, quantity and safety benefits of intervention during growth. Of the many factors responsible for overall quality of produce, about 70 percent comes from pre-harvest conditions. Written by an international team of experts, this book presents the key opportunities and challenges of pre-harvest interventions. From selecting the most appropriate growing scenario, to treating plants during the maturation process, to evaluating for quality factors to determine appropriate interventions, this book provides an integrated look at maximizing crop yield through preventative means. In fact, with the very best of postharvest knowledge and technologies available, the best that can be achieved is a reduction in the rate at which products deteriorate as they progress through their normal developmental pattern of maturation, ripening and senescence. Therefore, it is very important to understand what pre-harvest factors influence the

many important harvest quality attributes that affect the rate of postharvest deterioration and, subsequently, the consumers' decision to purchase the product in the marketplace. Presents the important pre-harvest factors that influence harvest quality Includes up-to-date information on pre-harvest factors that modulate post-harvest biology Identifies potential methodologies and technologies to enhance pre-harvest interventions
Post-harvest Management and Processing of Fruits and Vegetables CABI

Postharvest features extensive coverage of quality management in the handling, packaging and distribution of produce. It is intended for university students and students at technical colleges, but it is also an invaluable resource for managers and technologists working in horticulture and in the transportation, warehousing and retailing of fresh produce.

Production, Postharvest Management and Protection CRC Press

This edited volume provides insight into temperate fruits, with an emphasis on postharvest physiology, storage, packaging and technologies for maintaining fruit quality. Chapters are devoted to individual fruits and focus on fundamental issues such as methods for maintaining or enhancing quality, minimizing postharvest losses, and recommended technologies to boost demand.

Contributions come from experts in the field, making this a key reference for all aspects of postharvest management of temperate fruits. The volume is unique in its focus on the biodiversity, nutritional and health benefits, and postharvest technologies for shelf life enhancement of temperate fruits. Contributing authors address the postharvest biology and technology of individual temperate fruits such as plum, cherry, peach, apricot, apple, pear, quince, loquat, kiwi, persimmon and berries. There has been tremendous growth in the research and development of new techniques to maintain the quality of temperate fruits from farm to table. Contributions from experts in the field cover these recent advances, providing up-to-date and relevant information for researchers, postharvest/fruit technologists, food scientists, postgraduate students, and others working in the industry.

Postharvest New India Publishing

Postharvest Handling: A Systems Approach introduces a new concept in the handling of fresh fruits and vegetable. Traditional treatments have been either physiologically based with an emphasis on biological tissue or technologically based with an emphasis on storage and handling. This book integrates all processes from production practices through consumer consumption with an emphasis on understanding market forces and providing fresh product that meets consumer expectations. Postharvest physiologists and technologists across the disciplines of agricultural economics, agricultural engineering, food science and horticulture along with handlers of minimally-processed products within the fresh produce fruit and vegetable processing industries will find this to be an invaluable source of information. Uses a systems approach that provides a unique perspective on the handling of fresh fruits and vegetables Designed with the applied perspective to complement the more basic perspectives provided in other treatments Provides the integrated, interdisciplinary perspective needed in research to improve the quality of fresh and minimally processed products Emphasizes that the design of handling systems should be market-driven rather than concentrating on narrow specifics

An Introduction to the Physiology and Handling of Fruits and Vegetables Academic Press

All articles in the presented collection are high-quality examples of both basic and applied research. The publications collectively refer to apples, bananas, cherries, kiwi fruit, mango, grapes, green bean pods, pomegranates, sweet pepper, sweet potato tubers and tomato and are aimed at improving the postharvest quality and storage extension of fresh produce. The experimental works include the following postharvest treatments: 1-methylcyclopropene, methyl jasmonate, immersion in edible coatings (aloe, chitosan, plant extracts, nanoemulsions, ethanol, ascorbic acid and essential oils solutions), heat treatments, packaging, innovative packaging materials, low temperature, low O₂ and high CO₂ modified atmosphere, and non-destructible technique development to measure soluble solids with infra- and near infra-red spectroscopy. Preharvest treatments were also included, such as chitosan application, fruit kept on the vine, and cultivation under far-red light. Quality assessment was dependent on species, treatment and storage conditions in each case and included evaluation of color, bruising, water loss, organoleptic estimation and texture changes in addition to changes in the concentrations of sugars, organic acids, amino acids, fatty acids, carotenoids, tocopherols, phytosterols, phenolic compounds and aroma volatiles. Gene transcription related to ethylene

biosynthesis, modification of cell wall components, synthesis of aroma compounds and lipid metabolism were also the focus of some of the articles.

Postharvest Management and Processing of Fruits and Vegetables
CRC Press

The ultimate goal of crop production is to provide quality produce to consumers at reasonable rates. Most fresh produce is highly perishable, and postharvest losses are significant under the present methods of management in many countries. However, significant achievements have been made during the last few years to curtail postharvest losses in fr

Emerging Postharvest Treatment of Fruits and Vegetables
Springer

This book covers the importance of post-harvest technology in horticultural crops, fruit growth, development and post harvest physiology, fruit maturity indices, harvesting of fruits and vegetables, initial handling of fruits and vegetable after harvesting, precooling of horticulture produce, transportation, etc.. It is a rich source of modern engineering technologies for income generating concept for agro based industries. The book is specially dedicated to the sub sector of the fruits and vegetables plants dealing with the fresh primary product from the product reception following the harvesting up-to the storage and before launches it to the market. This book will serves as a comprehensive guide for all the people who focuses on post harvest management skills. Note: T&F does not sell or distribute the hardback in India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka.

Advances in Postharvest Fruit and Vegetable Technology
Woodhead Publishing

Consumption of fresh fruits and vegetables has increased dramatically in the last several decades. This increased consumption has put a greater burden on the fresh produce industry to provide fresher product quality, combined with a high

level of food safety. Therefore, postharvest handling, storage and shipment of horticultural crops, including fruit and vegetable products has increased in importance. Novel Postharvest Treatments of Fresh Produce focuses mainly on the application of novel treatments for fruits and vegetables shipping and handling life. A greater emphasis is placed on effects of postharvest treatments on senescence and ripening, bioactive molecule contents and food safety. The work presented within this book explores a wide range of topics pertaining to novel postharvest treatments for fresh and fresh-cut fruits and vegetables including applications of various active agents, green postharvest treatments, physical treatments and combinations of the aforementioned.

Postharvest Handling Daya Books

The volume presents existing and novel management approaches that are in use or have a great potential to be used to maintain the postharvest quality of fresh produce in terms of microbiological safety, nutrition, and sensory quality. In comparison to traditional synthetic chemicals, these eco-friendly molecules are equally effective with respect to slowing the physiological and biochemical changes in harvested produce. Application of terpenic compounds, phenolic compounds, salicylic acid, methyl jasmonates, hydrogen peroxide, ethanol, sulphur compounds, polyamines, plant growth regulators, active carbohydrates, ozone, hexanal and nitric oxide have been proven effective in minimizing storage disorders like chilling injury, scald, fungal diseases like stem-end rot, blue mould rot, green mould rot, anthracnose, regulation of ripening and senescence, etc. This book will be a standard reference work for the management of shelf life in the fresh produce industry.

Postharvest Physiology and Biochemistry of Fruits and Vegetables A handbook on post harvest management of fruits and vegetables

Best practices for preserving quality and consumer appeal of fresh fruits, vegetables Clarifies calculations for efficient cooling, controlled ripening and storage Presents strategies for reducing microbial risks and post-harvest pathologies A comprehensive introduction to established and emergent post-harvest technologies, this text shows how to enhance the value of perishable fruits and vegetable by mitigating the causes of deterioration and spoilage from farm to point of purchase. After investigating the structural, chemical and nutritional properties of fruits and vegetables, the book provides a step-by-step explanation of processing from machine harvesting through handling, ripening technologies, packaging and distribution. Emphasis is placed on ways to collect data needed to monitor quality. Psychrometric principles and their role in cold storage systems are presented along with calculations enabling effective refrigeration and control of transpiration, humidity and gases. The book includes examples and calculations for improving process control and predicting the shelf-life of temperate-climate and tropical fruits and vegetables.

Harvesting, Handling and Storage Academic Press

Postharvest Technology of Perishable Horticultural Commodities describes all the postharvest techniques and technologies available to handle perishable horticultural food commodities. It includes basic concepts and important new advances in the subject. Adopting a thematic style, chapters are organized by type of treatment, with sections devoted to postharvest risk factors and their amelioration. Written by experts from around the world, the book provides core insights into identifying and utilizing appropriate postharvest options for maximum results. Presents the most recent developments in processing technologies in a single volume Includes a wide range of perishable products, thus allowing for translational insight Appropriate for students and professionals Written by experts as a reference resource