Information on postharvest pathogens & diseases of major crops. This book expounds the fundamental aspects of postharvest diseases of crops and is conveniently divided into ten chapters, providing the latest information on postharvest diseases, economically significant postharvest pathogens & diseases of major crops, factors governing postharvest diseases, storage conditions, food safety issues, quiescence in post harvest harvested, detailed & recent information on major mycotoxins, various approaches of postharvest disease management, integrated management strategies, biochemical & molecular aspects of postharvest diseases, apart from which, an exclusive chapter for discussing the postharvest nematode diseases and their management is also furnished. Note: TAF does not sell or distribute the hardback in India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka. This title is co-published with NIPA. This comprehensive book provides a thorough scientific foundation on the growth and care of plants common to all horticultural commodities. Continuing in the tradition of the first edition, it incorporates the principles behind the techniques described in "how-to" horticulture texts. By providing readers with a thorough grounding in the science of horticulture, it successfully prepares them for more specialized studies in nursery management, floriculture, landscape, vegetable and fruit science.

Sustainable agriculture is a rapidly growing field aiming at producing food in a sustainable way for the environment and the children. It is a discipline that addresses current issues: climate change, increasing food and water prices, post-harvestStarvation, richly detailed, clearly written, post-harvest, post-harvest, pest control and biodiversity depletion. This series gathers articles that analyze current agricultural issues and knowledge, and proposes alternative solutions.

In an age of heightened nutritional awareness, assuring healthy human nutrition and improving the economic success of food producers are top priorities for agricultural economies. In the context of these global changes, innovative technologies are necessary for appropriate agro-food management, food harvest, and storage, and marketing and control, and to reduce food waste and consumption. Optical Monitoring of Fresh and Processed Agricultural Crops takes a task-oriented approach, providing essential applications for a better understanding of non-invasive sensory tools used for real-time, process-oriented detection of contaminants. This authoritative book is aimed at all participants working in optical sensors for agri-food applications, such as: coalitions, agricultural processing, hyper-spectral camera systems, scattering time and spatially-resolved techniques Fluorescence Sensing. Written by an Internationally Recognized Team of Experts Using a framework of new approaches, this text illustrates how cutting-edge sensor tools can perform rapid and non-destructive analysis of biological, chemical, physical, and environmental factors, and the various compounds appearing during processing. These are critical components to maximizing nutritional quality and safety of fruits and vegetables and decreasing economic losses due to produce decay. Quality control systems are quickly gaining a foothold in food manufacturing facilities, making Optical Monitoring of Fresh and Processed Agricultural Crops a valuable resource for agricultural technicians and developers working to maintain nutritional product value and applying a fine-tuned control process in the crop supply chain.

Here is an abundance of valuable information on different sensing techniques and vegetables. The volume covers emerging technologies, such as NIRS, MRI, wireless sensor networks (WSN), and radio-frequency identification (RFID) and their potential for industrial applications. Key features of the volume: - Includes an inclusive review of the developments of sensors for quality analysis and inspection of fresh fruits and vegetables. - Presents an understanding of the basic sensing techniques for quality assessment of fresh fruits and vegetables. - Covers advanced sensing techniques, including computer vision, spectroscopy, X-rays, magnetic resonance, mechanical contact, wireless sensor network and radio-frequency identification sensors. - Reviews the significant progress in sensor development of noninvasive techniques for quality assessment of fruits and vegetables for retail and post-processing. In all, these resources are major world markets and provide a unique perspective on the handling of fresh fruits and vegetables. Designed for anyone interested in the food system, production, handling, distribution, or processing of fruits and vegetables, it provides concise descriptions of important issues, roadmaps to the literature in specific areas, and case studies presented by experts.

Get Free Postharvest Handling A Systems Approach 2nd Edition

A chapter on the fundamentals of this topic is included to work on the importance of the topic and context. The book is organized into 10 chapters, providing the latest findings, their interpretation, and practical recommendations.

Chapter 1: Introduction

Designed for anyone interested in the food system, production, handling, distribution, or processing of fruits and vegetables, it provides concise descriptions of important issues, roadmaps to the literature in specific areas, and case studies presented by experts.

Chapter 2: Postharvest Disease Management

Designed for anyone interested in the food system, production, handling, distribution, or processing of fruits and vegetables, it provides concise descriptions of important issues, roadmaps to the literature in specific areas, and case studies presented by experts.