

Discover the Latest Advances in Postharvest Management of Horticultural Produce

Burleigh Dodds In

When it comes to the postharvest management of horticultural produce, staying up to date with the latest advances is crucial for achieving optimal quality, extended shelf-life, and reduced losses. This article explores the cutting-edge techniques and technologies provided by Burleigh Dodds In that revolutionize postharvest management in the horticultural industry.

Postharvest Challenges

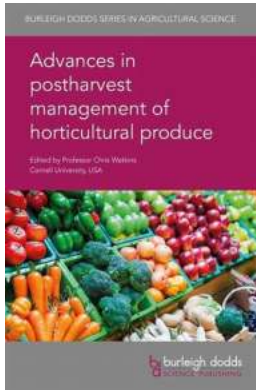
Horticultural produce faces various challenges after harvest, including physiological and biochemical changes, diseases, and transportation issues. To overcome these hurdles, Burleigh Dodds In has developed innovative solutions that improve the overall postharvest management processes.

1. Modified Atmosphere Packaging (MAP)

One significant advancement in postharvest management is the adoption of Modified Atmosphere Packaging, which involves modifying the gas composition surrounding the produce to control respiration rates and reduce the growth of spoilage-causing organisms. Burleigh Dodds In offers state-of-the-art MAP technologies that extend the shelf-life of horticultural produce while maintaining their quality and nutritional value.

Advances in postharvest management of horticultural produce (Burleigh Dodds Series in Agricultural Science Book 66)

by Alfred H. Siemens (1st Edition, Kindle Edition)



★★★★★ 5 out of 5

Language : English
File size : 28033 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 615 pages



2. Hot Water Treatment (HWT)

Horticultural crops are often susceptible to quarantine pests. To address this problem, Burleigh Dodds In has introduced Hot Water Treatment, a technique that utilizes controlled exposure to hot water to eliminate pests without causing significant damage to the produce. This non-chemical method provides effective quarantine control, reducing the risk of spreading pests during international trade.

3. Controlled Atmosphere (CA) Storage

Keeping horticultural produce in controlled atmospheric conditions can significantly extend its storage life. Burleigh Dodds In specializes in providing CA storage solutions that optimize gas composition, temperature, and humidity levels, ensuring the preservation of produce quality for prolonged periods. This technology has revolutionized the industry by allowing farmers to store and market their products at the most favorable times.

4. Irradiation

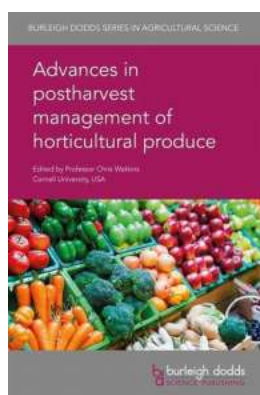
Irradiation is a highly effective postharvest treatment that eliminates insects, pests, and pathogens. Burleigh Dodds In offers advanced irradiation technologies that are safe, efficient, and environmentally friendly. This treatment has gained

widespread recognition for its ability to prevent infestation, enhance food safety, and reduce postharvest losses.

5. Intelligent Monitoring Systems

Modern postharvest management involves the integration of intelligent systems that monitor and control critical parameters such as temperature, humidity, and gas composition. Burleigh Dodds In provides cutting-edge monitoring technologies that utilize sensors and data analysis algorithms to ensure optimal storage conditions, reducing quality deterioration and extending the shelf-life of horticultural products.

Burleigh Dodds In has emerged as a leader in advancing postharvest management techniques for horticultural produce. Through their innovative technologies and solutions, including Modified Atmosphere Packaging, Hot Water Treatment, Controlled Atmosphere Storage, Irradiation, and Intelligent Monitoring Systems, the horticultural industry can now enhance quality, increase shelf-life, and reduce losses. By staying informed and implementing these advancements, farmers and producers can unlock new opportunities in the competitive global market.



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This book reviews key advances in preservation techniques for fresh fruit and vegetables.

Part 1 summarises developments and improvements in preservation technologies such as cooling, controlled atmosphere storage, modified atmosphere and active packaging as well as barrier coatings. The focus of Part 2 is on post-harvest safety management and disinfection. Chapters cover current research on mechanisms of pathogen contamination of fresh produce, as well as improvements in sanitising regimes and disinfection techniques using heat, irradiation and plasma, ozone and natural antimicrobials. The final part of the book surveys advances in monitoring postharvest quality of fresh produce and smart distribution systems to maintain the quality of horticultural produce.



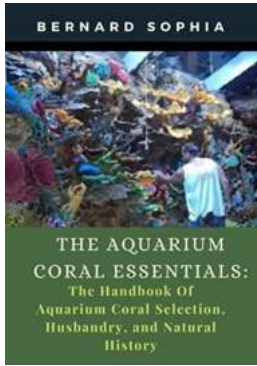
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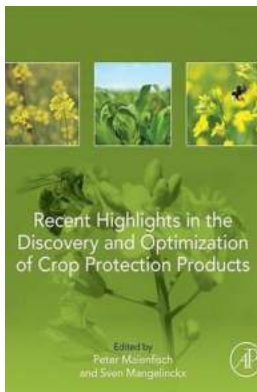
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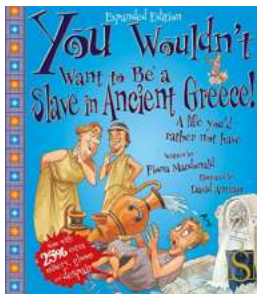
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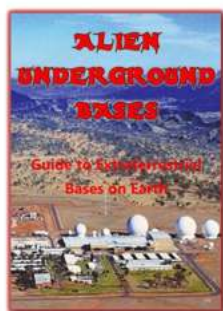
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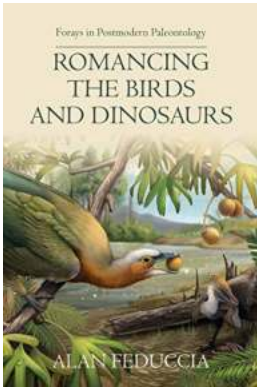
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