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Book Summary

Modern agriculture is unsustainable, as it can not continue to produce enough food for the global population over the long-term due to climatic changes which have been raising concerns about potential changes to crop yields and production systems. To increase food security and alleviate poverty there is a need to introduce improved crop-production technologies and by promoting appropriate policies that help to adopt new technologies. The proper postharvest handling plays a role in reducing quality losses due to the metabolic reactions and sustaining physiological processes, which continue during the postharvest period. The potential of agricultural biotechnology is being exploited to reduce crop losses from pests and disease, to improve the nutrient efficiency of food and feed, to increase the stress tolerance of crop plants, to extend postharvest life of commodities and to improve the nutritional content of crops. The tools of modern biotechnology are viable in the enhancement of both agricultural productivity and food quality. Application of new technologies would help achieve future food security for the world. Interest is currently turning from producer-oriented products to consumer-oriented output traits, and an increasing proportion of crop genetic modifications under study or in early development phases are focused on the improvement of food quality from both a nutritional and an agroindustrial point of view.

This book contains 80 chapters and covers issues dealing with sustainable agricultural production, production technology and quality of greenhouse crops, quality management of food crops for processing technology, control of pests, diseases and disorders of crops and breeding and biotechnology application in crops.

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Fruits:

Growth, Nutrition, and Quality

Edited by Ramdane Dris, PhD

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Book Summary:

Worldwide climatic changes have raised concerns about potential changes to fruit yields and production systems. To address these concerns *Fruits: Growth, Nutrition, and Quality* pulls together into one volume comprehensive research on the influence of different growing conditions on the production of quality fruits. Respected authorities discuss in detail the full spectrum of issues involving plant growth, development, mineral nutrition, production, and quality improvement of fruits. *Fruits: Growth, Nutrition, and Quality* is a solid detailed text for educators, growers, researchers, and students, packed with the latest information from a multitude of sources on the best approaches to maintain nutritional integrity while maximizing quality and yield of most varieties of fruits. From soil content to weed, disease, and insect control, to harvesting and optimal postharvest storage, this book details the essential knowledge you need about fruits for optimal growth and quality.

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Vegetables:

Growing Environment and Mineral Nutrition

Edited by **Ramdane Dris, PhD**

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Book Information



Book Summary: Swelling population pressures and changing eating habits have increased the demands for quality vegetables and ways to sustain better harvest yield. To address these concerns Vegetables: Growing Environment and Mineral Nutrition pulls together from around the world comprehensive research on the influence of growing conditions on the production of quality vegetables. Respected authorities discuss in detail various aspects of plant growth, development, mineral nutrition, production and quality improvement of vegetables.

Vegetables: Growing Environment and Mineral Nutrition is a solid detailed text for educators, growers, researchers, and students, packed with the latest information from a multitude of sources on the best approaches to maximize the quality, nutrition, and yield of most vegetables. Crop protection, tillage equipment, field preparation, seeds and transplants, irrigation and spraying systems, harvest and postharvest handling, season extension, integrated pest management, and environmentally friendly ways of handling insects, diseases, weeds, and wildlife are all thoroughly discussed. Sources are exhaustively presented at the end of each chapter, and the book employs numerous helpful illustrations, photographs, tables, and charts for clarity of thought. Vegetables: Growing Environment and Mineral Nutrition gathers together in one volume vital vegetable growth, cultivation, and harvest information, making it an essential resource for educators, horticulturists, food technologists, agriculturalists, environmentalists, researchers, and students.

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