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F. Coffee; 1. Production; 2. Quality; 3. Insects; IV. Adaption; A. General Concepts of Climate Change Adaptation; B. System-Level Adaptation Strategies in Perennial Cropping Systems; 1. Genotypic Adaptation; 2. Other Adaptation Strategies; 3. Constraints and Trade-offs Related to Adaptation in Perennial Systems; 4. Crop-Specific Adaptation Options; V. Future Research Needs; A. Cultivar Development; B. Yield and Quality Responses to Climatic Changes; C. Ecological Interactions in Cropping Systems
D. Disease and Insect Response to Climate Change E. Reducing Production Costs; F. Chilling Requirements and Frost Damage in Temperate Crops; Acknowledgments; Literature Cited; 3. Nonchilling Physiological Rind Disorders in Citrus Fruit; I. Introduction; II. Citrus Rind Disorders; A. Terminology; B. Symptomology; III. Rind Anatomy and Histological Characteristics; IV. Causes of Physiological Rind Disorders of Citrus Fruit; A. Preharvest Factors; 1. Scion Cultivar and Rootstock; 2. Canopy Position; 3. Fruit Maturity; 4. Fruit Mineral Nutrition; 5. Rainfall and Fruit Water Potential
B. Postharvest Factors 1. Water Loss; 2. Postharvest Wax Application; 3. Ethylene; V. Molecular and Physiological Basis of Physiological Rind Disorders; VI. Techniques for Inducing Rind Disorders; VII. Prospects for Future Research; VIII. Conclusions; Acknowledgments; Literature Cited; 4. Fruit Splitting in Citrus; I. Introduction; A. Problem and Overview; B. Cultivars Particularly Susceptible to Split; C. Fruit Splitting in Other Horticultural Crops; II. Physiology of Citrus Fruit Splitting; A. Relationship Between Fruit Growth, Resulting Shape, and Splitting B. Splitting as Related to Rind Characteristics

Sommario/riassunto

This latest volume in the Horticultural Reviews Series presents the most recent analyses of innovations in horticultural science and technology. Covering both basic and applied research, Volume 41 incorporates a wide variety of horticultural topics including the horticulture of fruits, vegetables, nut crops, and ornamentals. Specialized researchers and the broader community of horticultural scientists and student may benefit from this research tool.
