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Soggetti	Agriculture Plant physiology Climate change Plant science Botany Sustainable development Plant biochemistry Plant Physiology Climate Change/Climate Change Impacts Plant Sciences Sustainable Development Plant Biochemistry
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Nota di contenuto	1. World Cotton Production and Consumption: An Overview -- 2. Soil Management and Tillage Practices for Growing Cotton Crop -- 3. Managing Planting Time for Cotton Production -- 4. Sowing Methods for Cotton Production -- 5. Irrigation Scheduling for Cotton Cultivation -- 6. Role of Macro Nutrients in Cotton Production -- 7. Essential Micronutrients for Cotton Production -- 8. Plant Growth Regulators for Cotton Production in Changing Environment -- 9. Weeds Management in Cotton -- 10. Pollination Behavior of Cotton Crop and its Management -- 11. Insect Pests of Cotton and their Management -- 12. Ecological Management of Cotton Insect Pests -- 13. Cotton

Diseases and Their Management -- 14. Cotton Diseases and Disorders under Changing Climate -- 16. Cotton Relay Intercropping under Continuous Cotton-Wheat Cropping System -- 17. Cotton-Based Intercropping Systems -- 18. Abiotic Stresses Mediated Changes Morphophysiology of Cotton Plant -- 19. Salinity Tolerance in Cotton -- 20. Heat Stress in Cotton: Responses and Adaptive Mechanisms -- 21. Applications of Crop Modeling in Cotton Production -- 22. Climate Resilient Cotton Production System: A Case Study in Pakistan -- 23. Cotton Ontogeny -- 24. Molecular Breeding of Cotton for Drought Stress Tolerance -- 25. Biotechnology for Cotton Improvement -- 26. Development of Transgenic Cotton for Combating Biotic and Abiotic Stresses -- 27. Production and Processing of Quality Cottonseed -- 28. Quality Aspects of Cotton Lint -- 29. Modern Concepts and Techniques for Better Cotton Production -- 30. Diverse Uses of Cotton: From Products to Byproducts.

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### Sommario/riassunto

This book provides a comprehensive and systematic overview of the recent developments in cotton production and processing, including a number of genetic approaches, such as GM cotton for pest resistance, which have been hotly debated in recent decades. In the era of climate change, cotton is facing diverse abiotic stresses such as salinity, drought, toxic metals and environmental pollutants. As such, scientists are developing stress-tolerant cultivars using agronomic, genetic and molecular approaches. Gathering papers on these developments, this timely book is a valuable resource for a wide audience, including plant scientists, agronomists, soil scientists, botanists, environmental scientists and extension workers.

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