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Nota di contenuto	Chapter1. An introduction to climate change phenomenon -- Chapter2. Agro-meteorological Aspect of Climate Change -- Chapter3. Impact of elevated temperature on plant morphological and physiological traits -- Chapter4. Infirmary to climate change and regional impacts -- Chapter5. Climate resilience in agriculture -- Chapter6. Field crop production in relation to climate change -- Chapter7. Horticultural crops as affected by climate change -- Chapter8. Changing climate impacts on forest resources -- Chapter9. Climate change a great threat to fisheries -- Chapter10. Water resources in relation to climate change -- Chapter11. Importance of water management in the era of climate change -- Chapter12. Climate change and Salinity effects on crops -- Chapter13. Morphological, Physiological and Biochemical Modulations in Crops under Salt Stress caused by climate change. Chapter14. Weed management and climate change -- Chapter15. Insect pest management under climate change -- Chapter16. Effects of climate

change on the Socio-Economic conditions of farmers-a case study -- Chapter17. Research on climate change issue -- Chapter18. Role of Modeling in studying climate change -- Chapter19. Nutrient dynamics and role of modeling -- Chapter20. Climate smart agriculture technologies -- Chapter21. Internet of Things (IoT) and Sensors Technologies in Smart Agriculture: Applications, Opportunities and Current Trends -- Chapter22. World nations priorities on climate change and food security -- Chapter23. Importance of Carbon sequestration in the scenario of climate change.

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#### Sommario/riassunto

This volume discusses the need to adopt Climate-Resilient Agriculture (CRA) practices to address the increasing global impact that climate change has on agricultural productivity and agriculture-dependent communities. This approach applies technological, policy and economic measures to achieve sustainable agricultural growth in the sectors of grain, fruit, vegetable, fiber, feed, livestock, fisheries and forestry, with the ultimate goal of adapting and building resilience to climate change. The book also uses GIS, crop modeling and remote sensing techniques for future climate resilience applications in agriculture, and covers pest control measures that avoid the use of pesticides to boost crop and livestock productivity for improved food security. The book will be of interest to researchers and students in environmental science, climate science, sustainability and agriculture, as well as policy makers and environmental organizations. .

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