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Soggetti	Plant ecology Plant anatomy Plants - Development Plant physiology Plant diseases Plant breeding Agriculture Plant Ecology Plant Anatomy/Development Plant Physiology Plant Pathology Plant Breeding/Biotechnology Agricoltura Canvi climàtic Fisiologia vegetal Llibres electrònics
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Nota di contenuto	1. Introduction—implications of climate change for pests expansion and crop protection -- 2. Herbicide metabolism, weed growth, competition and control under changing climate -- 3. Climate change and invasive weeds -- 4. Impact of climate change on plant diseases and their management -- 5. Influence of climate change on insect

pests and their management -- 6. Crop protection under drought stress -- 7. Impact of climate change on crop yields and quality -- 8. Impact of global warming on society and environment; issues and solutions.

Sommario/riassunto

This book addresses the impact of important climatic changes on plant pests (including weeds, diseases and insect pests), and their interactions with crop plants. Anthropogenic activities have seriously impacted the global climate. As a result, carbon dioxide (CO₂) and temperature levels of the earth are on a continuous rise. The global temperature is expected to increase by a 3°C or more by the end of this century. The CO₂ concentration was below 300 parts per million (ppm) before the start of the industrial era; however, recently it has exceeded 400 ppm. This is highest ever in human history. Other than global warming and elevated CO₂ concentrations, anthropogenic activities have also disturbed the global water cycle, ultimately, impacting the quantity and distribution of rainfall. This has resulted in drought conditions in many parts of the world. Global warming, elevated CO₂ concentration and drought are considered the most important recent climatic changes that are impacting global ecosystems and human societies. Among other impacts, the effects of climatic changes on pests, pest-crop interactions and pest control are important with relevance to global food security, and hence require immediate attention by plant scientists. This book discusses innovative and the most effective pest control methods under an environment of changing climate and elaborates on the impact of drought on plant pests and their control.
