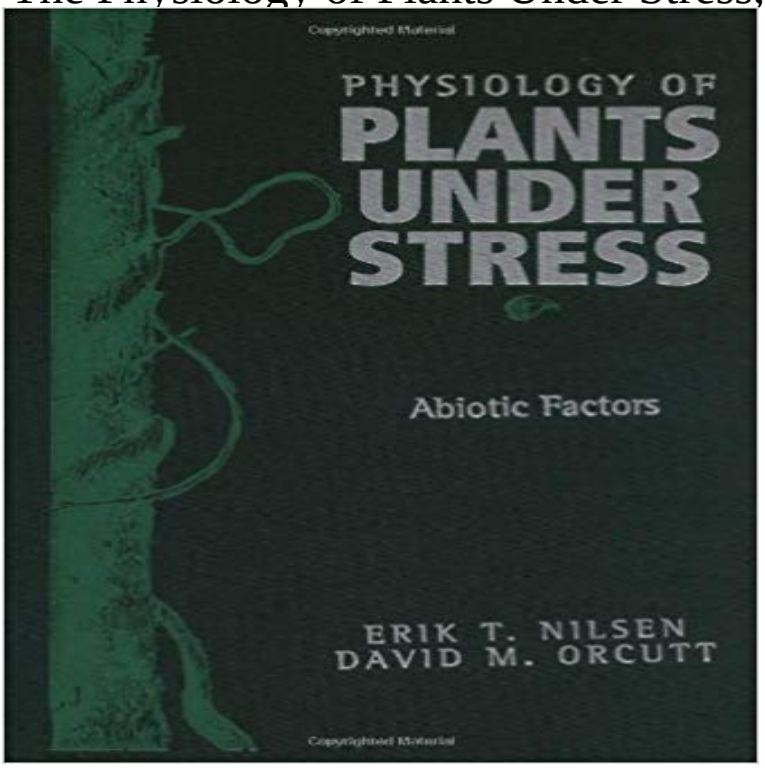
The Physiology of Plants Under Stress, Vol. 1: Abiotic Factors



The first comprehensive treatment of the physiology of plants under stress. Physiology of Plants Under Stress: Environmental Factors, Volume 1 is a valuable resource for plant physiologists, horticulturists, crop scientists, plant breeders, agronomists, and plant molecular biologists. It provides the most detailed coverage, to date, of the impact of a wide range of environmental variables upon plant structure, development, and growth. Comprehensive in scope, it explores: * Plant stress physiology fundamentals, including growth regulation, membranes, phytohormones, carbon balance, and the use of stable isotopes in stress studies. * Relevant physical, chemical, and biological aspects of all forms of environmental stress and their effects upon plant metabolism. * Multiple levels of adaptation, including behavioral, morphological, anatomical, physiological, and biochemical responses. * Plant responses to specific environmental stresses such as drought and flooding, light intensity, high heat, chilling and freezing, and other. * recent advances in microbiology and genetic manipulation in the regulation of metabolic influences. * And much more. each chapter concludes with study/review outlines and self-study review questions, making this an ideal text for graduate level courses in plant physiology, horticulture, agronomy, and crop science.

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