

# Responses of Plants to Environmental Stress, Volume 1: Chilling, Freezing, and High Temperature Stresses.

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## Responses of Plants to Environmental Stress, 2nd Edition, Volume 1: Chilling, Freezing, and High Temperature Stresses

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Book : [Responses of Plants to Environmental Stress, 2nd Edition, Volume 1: Chilling and High Temperature Stresses](#). 1980 pp.497 pp.ref.refs.

Abstract : Twelve chapters cover stress and strain terminology, the nature of injury and resistance, chilling injury and resistance, limits of low-temperature

the freezing process, freezing injury, freezing resistance - types, measurer changes, factors related to freezing tolerance, theories of freezing injury ar molecular basis of freezing injury and tolerance, high-temperature or heat s heat resistance. The discussion of heat stress focusses on the quantitative stress, the limits of high-temperature survival, the time factor, the occurren temperature stress and injury in nature, the nature of plant injury, and varic substances. The discussion of heat resistance includes heat avoidance and molecular aspects of thermotolerance, and the relationship between therm low-temperature tolerance. There is a 23-page bibliography for the heat sti resistance section.<new para>ADDITIONAL ABSTRACT:<new para>This 2nc volumes is an updated expansion of the 1st edition. This volume deals with and chemical changes resulting from temp. stress, how these changes cau: the ability of plants to avoid or tolerate these stress induced changes. After introductory section on stress and strain terminology and stress injury, tole resistance the book is divided into 3 sections which cover in depth the prob chilling temp., freezing temp. and high temp. stresses. There is a subject in<new para>ADDITIONAL ABSTRACT:<new para>This book, together with its volume, provides an updated, expanded treatment of the first single-volum was published in 1972. There are 12 chapters, grouped under 4 section he concepts; Chilling temperatures; Freezing temperatures; and High-tempera Each section has a separate bibliography. The many plant species cited incl vegetable and ornamental crops.

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