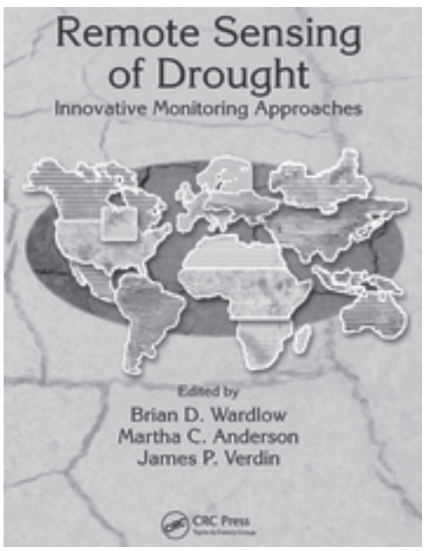
Remote Sensing of Drought: Innovative Monitoring Approaches

Brian D. Wardlow, Martha C. Anderson, James P. Verdin



This book presents emerging remote sensing-based tools and techniques that can be applied to operational drought monitoring and early warning around the world. It brings together a wealth of information that has been scattered throughout the literature and across many disciplines. It assembles a cross-section of globally applicable techniques that are currently operational or have potential to be operational in the near future and explores a range of applications for monitoring four critical components of the hydrological cycle related to drought: vegetation health, evapotranspiration, soil moisture and groundwater, and precipitation. These applications use remotely sensed optical, thermal, microwave, radar, and gravity data from instruments such as AMSR-E, GOES, GRACE, MERIS, MODIS, and Landsat and implement several advanced modeling and data assimilation techniques. The book also examines the role of satellite remote sensing within traditional drought monitoring, as well as current challenges and future prospects.

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Méthodes expérimentales en agronomie

Pratique et analyse (2e édition)

Michel Vilain



Cet ouvrage est essentiellement axé sur la méthodologie : conception et planification des expériences, aspects pratiques, échantillonnage, essais, exemples d'applications, analyse des résultats, utilisation de l'outil informatique. À l'occasion de cette deuxième édition entièrement revue, la rédaction de certains chapitres a été totalement reprise et complétée. C'est le cas en particulier pour deux d'entre eux : la conception et la réalisation de l'expérimentation ainsi que l'obtention des échantillons où la réalisation pratique et l'interprétation statistique des données ont été des préoccupations permanentes. L'architecture de l'ouvrage a été intégralement conservée : présentation des outils statistiques puis exposé de leurs utilisations en expérimentation et en échantillonnage où la limitation des développements mathématiques, l'un des objectifs constants lors de la première édition, a été totalement respectée. Quelques exemples nouveaux ont été développés.

Très didactique, il est accessible au plus grand nombre de lecteurs : étudiants en agronomie, élèves de BTS de l'enseignement agricole ou techniciens des industries agrochimiques et des organisations agricoles.

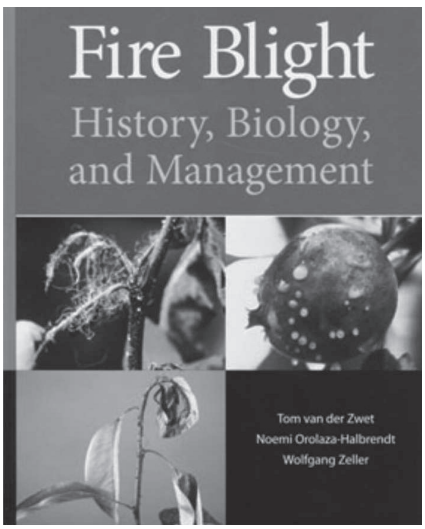
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Fire Blight: History, Biology, and Management

Tom van der Zwet, Noemi Orolaza-Halbrendt, Wolfgang Zeller



Three world-renowned experts provide comprehensive scientific coverage of this first known plant disease caused by a bacterium. Fire blight is present in 47 countries and affects many common host plants in the rose family worldwide. Although enormous progress has been made against the disease, it remains a devastating and difficult problem to control in certain locations under optimum weather conditions and agricultural scientists must remain diligent. It is expected that the disease may eventually spread around the globe to all countries growing pome fruit, and the knowledge presented here will be an important first line of defense.

This book includes a history of the disease, plus detailed information about the biology, epidemiology, and host-pathogen interactions, as well as horticultural, chemical, and biological control management strategies. It includes important coverage of the discovery of pathogenicity and virulence genes, induced resistance, and the variability and diversity of the bacterial pathogen. These research advances offer promise for controlling the disease, where the traditional studies of epidemiology and conventional chemical or biological control have been unsuccessful. An addendum chapter compiling most of the literature covering phytobacteriological and molecular techniques for quick and easy reference is included.

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ISBN: 978-0-89054-394-8

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