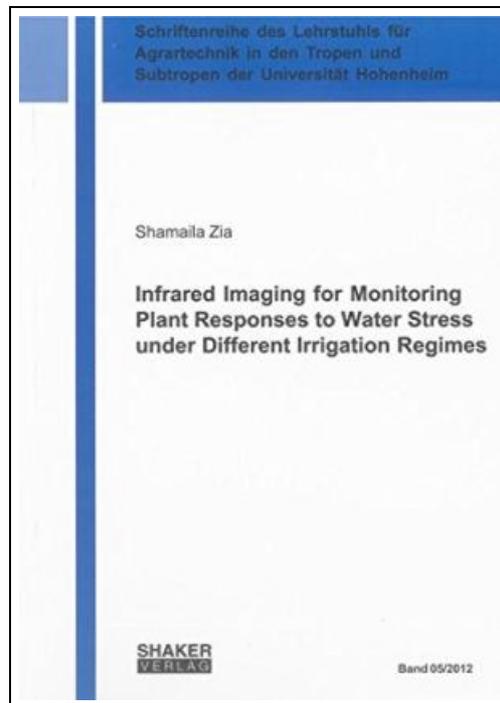


Infrared Imaging for Monitoring Plant Responses to Water Stress under Different Irrigation Regimes



Filesize: 2.35 MB

Reviews

Extensive information for ebook fans. It generally is not going to expense a lot of. I discovered this publication from my dad and i suggested this ebook to discover.

(Ivah West)

INFRARED IMAGING FOR MONITORING PLANT RESPONSES TO WATER STRESS UNDER DIFFERENT IRRIGATION REGIMES

DOWNLOAD



To download **Infrared Imaging for Monitoring Plant Responses to Water Stress under Different Irrigation Regimes** PDF, make sure you click the web link below and download the document or have access to additional information which are in conjunction with **INFRARED IMAGING FOR MONITORING PLANT RESPONSES TO WATER STRESS UNDER DIFFERENT IRRIGATION REGIMES** book.

Shaker Verlag Okt 2012, 2012. Buch. Book Condition: Neu. Neuware - In the framework of this study greenhouse and field experiments were established at three locations comprising Germany (greenhouse), China (field), and Mexico (field) and three different crops which were grapevine, winter wheat and maize. Water status detection for advanced irrigation scheduling is frequently done by predawn leaf water potential or leaf stomatal conductance measurements. However, both methods are labor intensive and time consuming as leaf to leaf variations require much replication for reliable data and are not yet possible to be automated. The basic principle of using infrared thermography as an indicator of water stress is that plants close stomata under water stress, which results in decrease of energy dissipation and increase of canopy temperature. Infrared thermography visualizes this increase in leaf temperature and the magnitude of the rise in canopy temperature among water stressed plants is influenced by successive stress imposition. Therefore, thermography is a non-contact method and thus very fast and practical. It is capable to estimate large leaf populations simultaneously and provides an overview on stomatal conductance variation and dynamics. The results of the study show that although a linear correlation existed between stomatal conductance and CWSI in maize under greenhouse conditions, in winter wheat it depends on the phenological stage of the crop. For example, a correlation of $r^2 = 0.44$ at pre-heading and $r^2 = 0.77$ at post-heading stage was found. This is due to the change in the baselines of some crops including wheat as the plant height varies from vegetative to reproductive growth stage. A higher canopy diffusion resistance prevails in the post-heading stage than in the pre-heading stage, resulting in cooler canopy. This indicates the importance of taking crop growth parameters into consideration like plant height, which effects canopy reflectance and...



[Read Infrared Imaging for Monitoring Plant Responses to Water Stress under Different Irrigation Regimes Online](#)



[Download PDF Infrared Imaging for Monitoring Plant Responses to Water Stress under Different Irrigation Regimes](#)



[Download ePUB Infrared Imaging for Monitoring Plant Responses to Water Stress under Different Irrigation Regimes](#)

Relevant Books



[PDF] Programming in D

Click the link listed below to read "Programming in D" document.

[Read PDF »](#)



[PDF] Study and Master English Grade 6 Core Reader: First Additional Language

Click the link listed below to read "Study and Master English Grade 6 Core Reader: First Additional Language" document.

[Read PDF »](#)



[PDF] Adobe Indesign CS/Cs2 Breakthroughs

Click the link listed below to read "Adobe Indesign CS/Cs2 Breakthroughs" document.

[Read PDF »](#)



[PDF] Have You Locked the Castle Gate?

Click the link listed below to read "Have You Locked the Castle Gate?" document.

[Read PDF »](#)



[PDF] The Java Tutorial (3rd Edition)

Click the link listed below to read "The Java Tutorial (3rd Edition)" document.

[Read PDF »](#)



[PDF] Psychologisches Testverfahren

Click the link listed below to read "Psychologisches Testverfahren" document.

[Read PDF »](#)



[PDF] Czech Suite, Op.39 / B.93: Study Score

Click the link under to get "Czech Suite, Op.39 / B.93: Study Score" document.

[Download eBook »](#)



[PDF] Homeschool Your Child for Free: More Than 1,400 Smart, Effective, and Practical Resources for Educating Your Family at Home

Click the link under to get "Homeschool Your Child for Free: More Than 1,400 Smart, Effective, and Practical Resources for Educating Your Family at Home" document.

[Download eBook »](#)



[PDF] The genuine book marketing case analysis of the the lam light. Yin Qihua Science Press 21.00(Chinese Edition)

Click the link under to get "The genuine book marketing case analysis of the the lam light. Yin Qihua Science Press 21.00(Chinese Edition)" document.

[Download eBook »](#)



[PDF] Cello Concerto, Op. 104 / B. 191: Study Score

Click the link under to get "Cello Concerto, Op. 104 / B. 191: Study Score" document.

[Download eBook »](#)



[PDF] Three Simple Rules for Christian Living: Study Book

Click the link under to get "Three Simple Rules for Christian Living: Study Book" document.

[Download eBook »](#)



[PDF] Scherzo Capriccioso, Op.66 / B.131: Study Score

Click the link under to get "Scherzo Capriccioso, Op.66 / B.131: Study Score" document.

[Download eBook »](#)