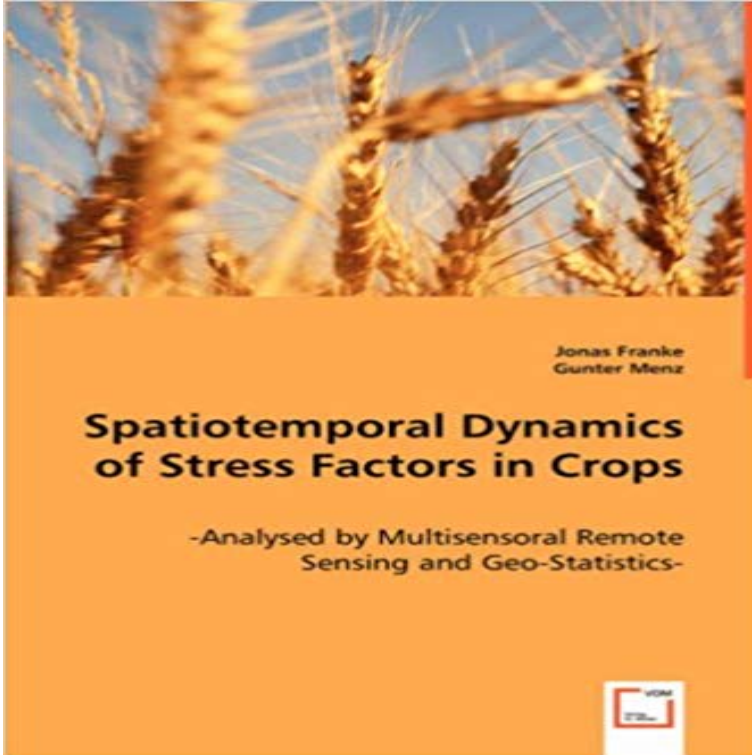


Spatiotemporal Dynamics of Stress Factors in Crops: -Analysed by Multisensoral Remote Sensing and Geo-Statistics-



Plant stresses, in particular fungal diseases, basically show a high variability in space and time with respect to their impact on the host. Recent Precision Agriculture techniques allow for a spatially and temporally adjusted pest control that might reduce the amount of cost-intensive and ecologically harmful agrochemicals. Conventional stress detection techniques such as random monitoring do not meet demands of such optimally placed management actions. The prerequisite is a profound knowledge about the controlled phenomena as well as their accurate sensor-based detection. Therefore, the present studies focused on spatiotemporal dynamics of stress factors in wheat, Europe's main crop. Primarily, the spatiotemporal characteristics of the fungal diseases, powdery mildew (*Blumeria graminis*) and leaf rust (*Puccinia recondita*), were analysed by remote sensing techniques and geo-statistics on leaf and canopy scale.

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