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Hyperspectral Remote Sensing of Vegetation

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Hyperspectral narrow-band (or imaging spectroscopy) spectral data are fast emerging as practical solutions in modeling and mapping vegetation. Recent research has demonstrated the advances in and merit of hyperspectral data in a range of applications including quantifying agricultural crops, modeling forest canopy biochemical properties, detecting crop stress and disease, mapping leaf chlorophyll content as it influences crop production, identifying plants affected by contaminants such as arsenic, demonstrating sensitivity to plant nitrogen content, classifying vegetation species and type, characterizing wetlands, and mapping invasive species. The need for significant improvements in quantifying, modeling, and mapping plant chemical, physical, and water properties is more critical than ever before to reduce uncertainties in our understanding of the Earth and to better sustain it. There is also a need for a synthesis of the vast knowledge spread throughout the literature from more than 40 years of research.

Hyperspectral Remote Sensing of Vegetation integrates this knowledge, guiding readers to harness the capabilities of the most recent advances in applying hyperspectral remote sensing technology to the study of terrestrial vegetation. Taking a practical approach to a complex subject, the book demonstrates the experience, utility, methods and models used in studying vegetation using hyperspectral data. Written by leading experts, including pioneers in the field, each chapter presents specific applications, reviews existing state-of-the-art knowledge, highlights the advances made, and provides guidance for the appropriate use of hyperspectral data in the study of vegetation as well as its numerous applications, such as crop yield modeling, crop and vegetation biophysical and biochemical property characterization, and crop moisture assessment.

This comprehensive book brings together the best global expertise on hyperspectral remote sensing of agriculture, crop water use, plant species detection, vegetation classification, biophysical and biochemical modeling, crop productivity and water productivity mapping, and modeling. It provides the pertinent facts, synthesizing findings so that readers can get the correct picture on issues such as the best wavebands for their practical applications, methods of analysis using whole spectra, hyperspectral vegetation indices targeted to study specific biophysical and biochemical quantities, and methods for detecting parameters such as crop moisture variability, chlorophyll content, and stress levels. A collective "knowledge bank," it guides professionals to adopt the best practices for their own work.

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Reading a book to get new life style in this season; every people loves to learn a book. When you learn a book you can get a lot of benefit. When you read ebooks, you can improve your knowledge, simply because book has a lot of information on it. The information that you will get depend on what types of book that you have read. If you wish to get information about your examine, you can read education books, but if you want to entertain yourself you are able to a fiction books, this kind of us novel, comics, as well as soon. The Hyperspectral Remote Sensing of Vegetation provide you with a new experience in examining a book.

John Starr:

In this era globalization it is important to someone to obtain information. The information will make someone to understand the condition of the world. The condition of the world makes the information much easier to share. You can find a lot of sources to get information example: internet, paper, book, and soon. You can observe that now, a lot of publisher in which print many kinds of book. Typically the book that recommended for you is Hyperspectral Remote Sensing of Vegetation this publication consist a lot of the information in the condition of this world now. This kind of book was represented so why is the world has grown up. The words styles that writer require to explain it is easy to understand. Often the writer made some analysis when he makes this book. That is why this book suited all of you.

Clifford Roselli:

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