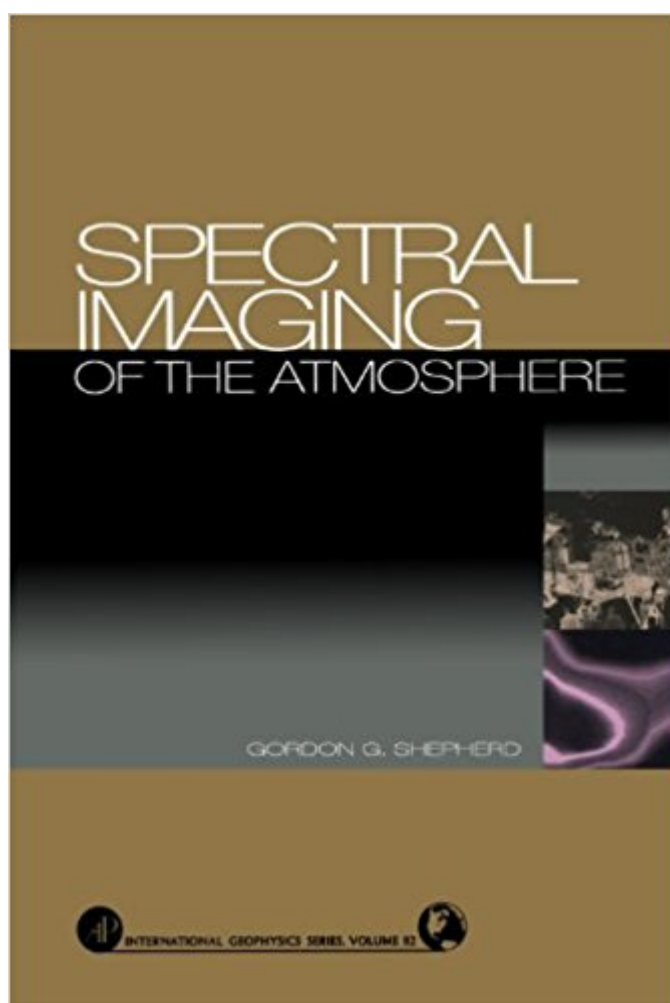


The book was found

Spectral Imaging Of The Atmosphere, Volume 82 (International Geophysics)



Synopsis

Optical instruments are routinely employed to obtain a wealth of information about the atmosphere, including its composition, temperature, and winds. A bewildering variety of optical instruments have been proposed over the years, making it difficult to decide which instrument should be chosen to make a specific measurement. *Spectral Imaging of the Atmosphere* traces the historical development of both spectral and imaging methods and places them in a unified framework relevant to observations of the troposphere, stratosphere, mesosphere and thermosphere. The underlying concepts of various measurement methodologies are presented and paired with appropriate applications. A selection of specific spectral imaging instruments, appropriate to illustrate each conceptual type, is described in detail. Shepherd's work provides both scientists and engineers with an in-depth understanding of the fundamental concepts they need to know in order to plan a program of atmospheric measurements. Expected future methods and developments are also presented. Problems designed to test and enhance the reader's understanding of the material are included in each chapter.

Book Information

Series: International Geophysics (Book 82)

Hardcover: 304 pages

Publisher: Academic Press; 1 edition (August 20, 2002)

Language: English

ISBN-10: 0126394814

ISBN-13: 978-0126394818

Product Dimensions: 1 x 6.8 x 9.8 inches

Shipping Weight: 1.8 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #713,421 in Books (See Top 100 in Books) #94 in [Books > Computers & Technology > Graphics & Design > Computer Modelling > Imaging Systems](#) #167 in [Books > Science & Math > Earth Sciences > Geophysics](#) #205 in [Books > Computers & Technology > Graphics & Design > Computer Modelling > Remote Sensing & GIS](#)

Customer Reviews

"...an essential read for anyone interested in high resolution spectral remote sensing... very interesting and stimulating..." -Paul R. Hays
"...Our knowledge and monitoring capabilities about the state of the atmosphere would be much less without the wealth of remotely sensed data available

today. This book, written by an experienced scientist who designed several spectral imagers that became operational on satellites, provides scientists and engineers with an in-depth understanding of the fundamental concepts of spectral imaging. ...I consider the book as a valuable reference for advanced users of data from spectral imagers."-Leopold Haimberger, Vienna

Gordon G. Shepherd, York University, North York, Ontario, Canada

[Download to continue reading...](#)

Spectral Imaging of the Atmosphere, Volume 82 (International Geophysics) Spectral Analysis in Geophysics (Development in Solid Earth Geophysics) Atmosphere, Ocean and Climate Dynamics: An Introductory Text (International Geophysics) Spectral Geometry of the Laplacian: Spectral Analysis and Differential Geometry of the Laplacian Near-Surface Geophysics (Investigations in Geophysics No. 13) Portal Hypertension: Diagnostic Imaging and Imaging-Guided Therapy (Medical Radiology / Diagnostic Imaging) General Theory of Light Propagation and Imaging Through the Atmosphere (Springer Series in Optical Sciences) Environmental Magnetism, Volume 86: Principles and Applications of Enviromagnetism (International Geophysics) Paleomagnetism, Volume 73, Second Edition: Continents and Oceans (International Geophysics) Introduction to Geophysical Fluid Dynamics, Volume 101, Second Edition: Physical and Numerical Aspects (International Geophysics) An Introduction to Dynamic Meteorology, Volume 88, Fourth Edition (International Geophysics) Atmospheric Science, Second Edition: An Introductory Survey (International Geophysics) Cloud Dynamics (International Geophysics) Advances in Maxillofacial Imaging: Selected Proceedings of the 11th Congress of the International Association of Dentomaxillofacial Radiology and the ... Congress and (International Congress Series) The Spectral Wilderness (Wick Poetry First Book) Haunted Savannah: America's Most Spectral City The Spectral Piano: From Liszt, Scriabin, and Debussy to the Digital Age (Music Since 1900) Structure Determination of Organic Compounds: Tables of Spectral Data Spectral Graph Theory (CBMS Regional Conference Series in Mathematics, No. 92) Introduction to Hilbert Space and the Theory of Spectral Multiplicity: Second Edition (Dover Books on Mathematics)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)