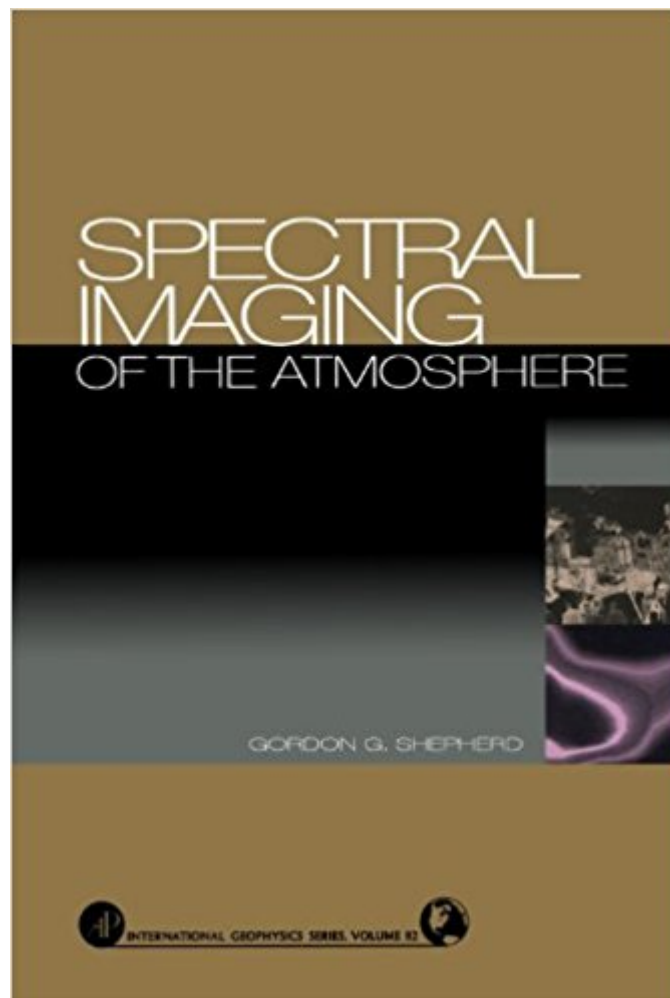




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Spectral Imaging Of The Atmosphere, Volume 82 (International Geophysics)



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.

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"...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

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