



Remote Sensing of the Environment: An Earth Resource Perspective (2nd Edition)

By John R. Jensen

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This popular book introduces the fundamentals of remote sensing from an earth resource (versus engineering) perspective. The author emphasizes the use of remote sensing data for useful spatial biophysical or socio-economic information that can be used to make decisions. Provides two new chapters on LIDAR Remote Sensing (Ch. 10) and In situ Spectral Reflectance Measurement (Ch. 15). Offers a thorough review of the nature of electromagnetic radiation, examining how the reflected or emitted energy in the visible, near-infrared, middle-infrared, thermal infrared, and microwave portions of the spectrum can be collected by a variety of sensor systems and analyzed. Employs a visually stimulating, clear format: a large (8.5" x 11") format with 48 pages in full color facilitates image interpretation; hundreds of specially designed illustrations communicate principles in an easily understood manner. A useful reference for agriculture, wetland, and/or forestry professionals, along with geographers, urban planners, and transportation engineers.

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Editorial Review

From the Back Cover

This book introduces the principles of remote sensing from an Earth resource perspective. It describes a) the fundamental characteristics of electromagnetic radiation and how the energy interacts with Earth materials such as vegetation, water, soil and rock, b) how the energy reflected or emitted from these materials is recorded using a variety of remote sensing instruments (e.g., cameras, multispectral scanners, hyperspectral instruments, RADAR), and c) how we can extract fundamental biophysical or land use/land cover information from the remote sensor data. The history of remote sensing, the principles of visual photo-interpretation, and photogrammetry are also presented. Application chapters focus on remote sensing of vegetation, water, urban land use, and soil/rock and geomorphic features. The book was written for physical, natural, and social scientists interested in how remote sensing of the environment can be used to solve real-world problems. The following features make this book easy to comprehend and apply: a) it contains hundreds of illustrations specially designed to make complex principles easy to understand, b) a substantial reference list at the end of each chapter, c) the 8.5 x 11" format allows the remote sensing images and diagrams to be easily interpreted, d) 32 pages of color are used to display remote sensing images or biophysical information that may be extracted from remote sensor data, and e) an Appendix provides Internet addresses for the most important sources of remote sensing information. Exercises and book illustrations are made available to instructors via the author's website. This book is a companion to "Introductory Digital Image Processing: A Remote Sensing Perspective" (Prentice-Hall, Inc., 1996) which introduces the fundamentals of digital image analysis. It is ideal for undergraduate or graduate courses in airphoto interpretation and remote sensing.

Users Review

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