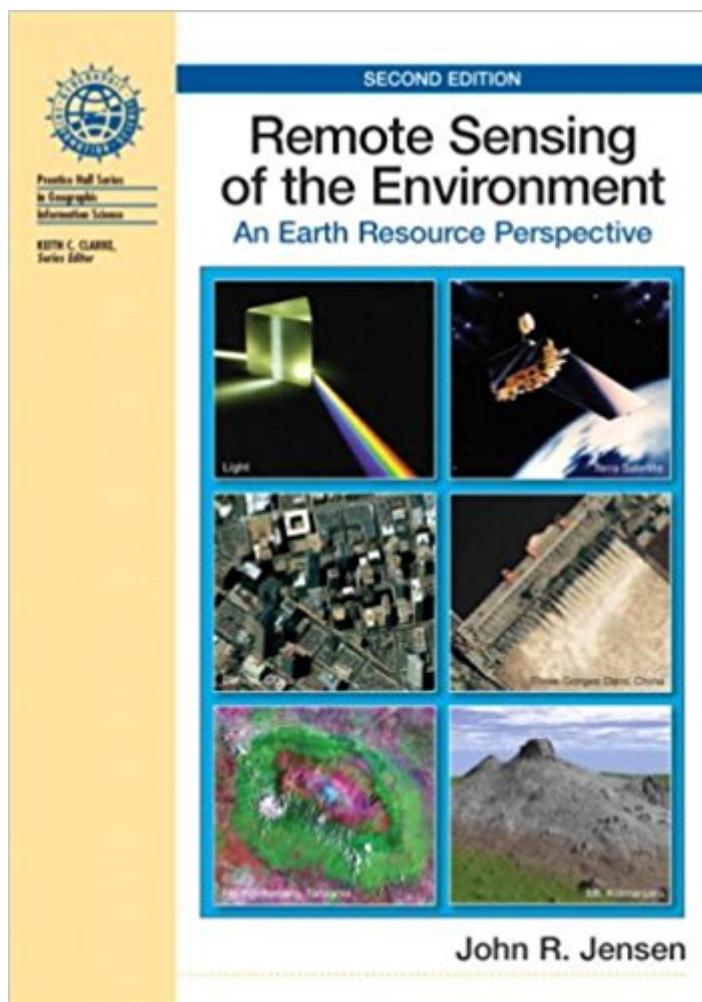


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# Remote Sensing Of The Environment: An Earth Resource Perspective (2nd Edition)



## **Synopsis**

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.

## **Book Information**

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## **Customer Reviews**

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. --This text refers to an out of print or unavailable edition of this title.

The book needs updating and modernization as there is too much concentration on needless details and not enough attention to 'hands on' learning.' Much of it is in antiquated black and white format as remote sensing is a very colorful, powerful, and highly advanced modern technique and the very thin middle section was better. Professors: Do your students a favor and dump this technically antiquated ode to a tech dinosaur era. The new geology books are a good example as they are rife with good illustrations and technical illustration.

It is so good I am using this on my work

This text book is extraordinarily detailed, and provides not only the concepts, but the theory and nuance for beginning in remote sensing. While studying this book, in detail, I have run into the following complaints, though:1) The glossary and index are so incomplete, they're desolate. Important and conceptual terms that are used are not in either - it makes using the book quite difficult.2) There is WAY too much minutia - the text is very informative, but I've found that the explanations of most things are excessively verbose.3) Remote sensing is a very visual field.... and this book doesn't utilize diagrams and images nearly as much as it could/should. I realize that generating diagrams is time-consuming, but it would help this book immensely.4) Chapter

summaries and concept-based questions at the end of the chapters would probably help students a lot, too (perhaps even teachers).5) There's not nearly enough talk about which EM bands see what, and what they help with. That's the entire basis of remote sensing, and it isn't explored in the detail that it could be. So, while I recommend this text, because it is one-of-a-kind, I do so with the warning that it is obviously not a fine-tuned text yet.

The geological of 2 pages is of the greatest help to me. Thank you for making this book available here in the United States at such a great price!

Oh, how this book drones on and on. I could write a 10 page book report, and cover all that this anvil of a textbook has to inform you about. I suppose it's a good source if you don't know how to identify objects from overhead, but beyond that, you will need something to keep you focused as you read through the pages. On the plus side, this book is extremely well illustrated, and there's plenty of interesting side notes about specific satellites.

The book it self is great and the condition was good. What the seller did not disclose was that it is meant to be sold in Indian Sub-continent only and all the figures are in black and white (no colors)

I read a good bit of this textbook for a class. It's now pretty dated and really needs an update. Also its very annoying that you pay so much for a book and you still have to flip to the middle to see color plates! I'll change my rating when/if the price comes down.

Taken in conjunction with GEO 444, Remote Sensing, the book isn't the easiest read but it is helpful to have.

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