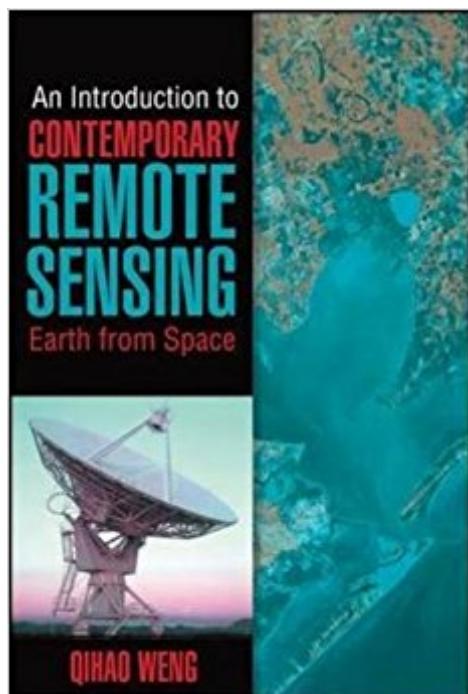


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# An Introduction To Contemporary Remote Sensing



## Synopsis

A PRACTICAL, FULL-COLOR GUIDE TO REMOTE SENSING Written by an internationally renowned expert in the field, An Introduction to Contemporary Remote Sensing introduces the latest developments in remote sensing and imaging science. This book covers basic principles and discusses essential technologies, such as aerial photography, radar, Lidar (light detection and ranging), photogrammetry, satellites, thermal radiation, and much more. Full-color images illustrate the concepts presented, and review questions at the end of each chapter help reinforce learning. This detailed resource provides the solid foundation in remote sensing required for developing diverse geospatial applications. Coverage includes: Geographic information system (GIS) Global positioning system (GPS), mobile mapping, and Google Earth Electromagnetic radiation principles Characteristics of remotely sensed data Spatial, spectral, radiometric, and temporal resolution Aerial photo interpretation Photogrammetry Remote sensors Earth observation satellites Digital image analysis Thermal remote sensing Active remote sensing

## Book Information

Hardcover: 320 pages

Publisher: McGraw-Hill Education; 1 edition (February 9, 2012)

Language: English

ISBN-10: 0071740112

ISBN-13: 978-0071740111

Product Dimensions: 6.1 x 0.3 x 9.2 inches

Shipping Weight: 1.2 pounds (View shipping rates and policies)

Average Customer Review: 4.6 out of 5 stars 3 customer reviews

Best Sellers Rank: #258,194 in Books (See Top 100 in Books) #75 in Books > Science & Math > Earth Sciences > Geography > Information Systems #76 in Books > Computers & Technology > Graphics & Design > Computer Modelling > Remote Sensing & GIS #704 in Books > Computers & Technology > Networking & Cloud Computing > Internet, Groupware, & Telecommunications

## Customer Reviews

Qihao Weng, Ph.D., is a professor of geography and the director of the Center for Urban and Environmental Change at Indiana State University. From 2008 to 2009, he visited NASA as a senior research fellow. Dr. Weng is also a guest/adjunct professor at Wuhan University and Beijing Normal University, and a guest research scientist at Beijing Meteorological Bureau. He currently serves as

national director for the American Society for Photogrammetric and Remote Sensing (ASPRS) and is an associate editor of ISPRS Journal of Photogrammetric and Remote Sensing.

I also have "Remote Sensing and Image Interpretation 2d ed" by Thomas Lillesand and I am reading both for a Remote Sensing course. This book is smaller, which means it is easier to take with me on trips. For example, during my first week of online courses I took a trip to Hawaii and this book fit better in my travel luggage. Aside from that, I feel like the author presents concepts in a more straight forward manner than the author of the other book. Weng's writing style makes more sense to me and he is able to still get the core information across using less words because he writes in a more direct, easy to understand manner. I feel like I am getting more from him and understand remote sensing better than I do with the other book. Also, this book is about half the cost of other Remote Sensing books on , which is a total plus!Anyway, if you are given the choice (as I was) between this book and "Remote Sensing and Image Interpretation 2d ed" by Thomas Lillesand for the same Remote Sensing class, I think you'll find that this book get's the job done better, is easier to take with you when you travel and it is significantly cheaper.

I bought this book as an alternative to the usual book that had been selected for the graduate-level remote sensing class. My understanding is that this book was written more for undergraduate level. Since I am new to my graduate program -- and therefore not yet used to reading for graduate classes -- I figured this book would explain the same concepts I need to know more succinctly than normal textbook assigned for my class. I have found this book to achieve this aim I just explained. It is very well-written, the tables/charts are adequate. The only criticism I have of it is that it could explain just briefly more about some concepts that are more complex -- without it turning into a graduate-level textbook, of course. However, coupled with other class materials, it pairs very well in order to achieve an adequate level of understanding of most of the concepts involved with remote sensing.

This book, combined with "Environmental Sensing" by James K. Lein, can be a deadly combination for helping students receive the best information about the class in a different context. However, while Campbell's or any other remote sensing may replace this book because of a more in-depth look into the hows, whys, and whats of remote sensing, this book goes into general concepts of it and pairing it with any book where those ones are either (A) missing critical concepts, (B) are a big book and finding information becomes time consuming, and (C) the concepts are written very

poorly, unclear, or the books include review questions that are near impossible to solve. Some books, like "Environmental Sensing", don't include a glossary of terms or review questions. That is where this text comes in and I'm glad to have that and "Environmental Sensing".

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