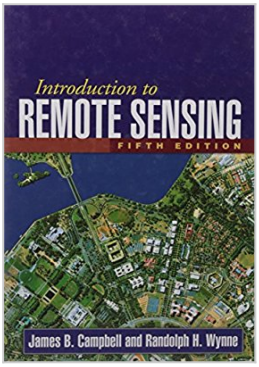

Introduction to Remote Sensing, Fifth Edition

By James B. Campbell, Randolph H. Wynne

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A leading text for undergraduate- and graduate-level courses, this book introduces widely used forms of remote sensing imagery and their applications in plant sciences, hydrology, earth sciences, and land use analysis. The text provides comprehensive coverage of principal topics and serves as a framework for organizing the vast amount of remote sensing information available on the Web. Including case studies and review questions, the book's four sections and 21 chapters are carefully designed as independent units that instructors can select from as needed for their courses. Illustrations include 29 color plates and over 400 black-and-white figures.

New to This Edition
*Reflects significant technological and methodological advances.
*Chapter on aerial photography now emphasizes digital rather than analog systems.
*Updated discussions of accuracy assessment, multitemporal change detection, and digital preprocessing.
*Links to recommended online videos and tutorials.

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- Sales Rank: #155994 in Books
- Brand: Brand: The Guilford Press
- Published on: 2011-06-21
- Original language: English
- Number of items: 1
- Dimensions: 10.30" h x 1.71" w x 7.10" l, 2.97 pounds
- Binding: Hardcover
- 667 pages

Editorial Review

Review

"This text is irreplaceable and has stood the test of time. It is a godsend for my remote sensing classes; students are guided by the book's logical structure, authoritative writing, liberal use of examples, and clear illustrations. The fifth edition offers an excellent opportunity to brush up on the rapidly changing face of remote sensing, as underlined by a separate chapter on change detection."--Victor Mesev, Department of Geography, Florida State University

"*Introduction to Remote Sensing* deserves its excellent reputation as one of the preeminent textbooks for undergraduate courses in remote sensing and image processing. It has proven very economical for my students as I can use it in complementary courses on introductory remote sensing and image processing. Like prior editions, the fifth edition provides students with critical information on how to design and conduct a remote sensing project, including acquisition of field data. Comprehensive and up to date, this is an essential text for our dynamic discipline."--Paul Treitz, Department of Geography, Queen’s University, Canada

"The fifth edition of this outstanding text maintains the high standards that faculty and students have enjoyed in previous editions. It provides one of the best-organized, most accessible treatments available. The inclusion of extensive references and, especially, additional learning resources easily enables instructors to explore topics in more depth as desired. I am particularly impressed with how Campbell and Wynne have admirably met the challenge of keeping the text up to date with respect to new analytical methods, always a challenge in this ever-changing field. The full section on change detection is another welcome addition."--Rick L. Lawrence, Department of Land Resources and Environmental Sciences, Montana State University

"*Introduction to Remote Sensing* is the cornerstone of the reading list for my undergraduate environmental remote sensing course. The book is structured to have a clear and logical progression that guides students into the subject and builds a comprehensive knowledge base. Each chapter is highly informative, providing information that is easy to digest and fully contextualized with relevant examples and suitable illustrations. The revised questions at the end of each chapter provide an excellent opportunity for reflective learning. Overall, this book is an essential read for my students which has proven over the years to stand them in good stead."--Ross Hill, School of Applied Sciences, Bournemouth University, United Kingdom

"This well-established introductory textbook covers all aspects of classical remote sensing, from basic physics and image acquisition to analytic techniques and applications in a wide range of areas. Given the continued rapid development of remote sensing--for example, the increased use of satellite imagery, digital cameras, and Lidar--the publication of the fifth edition is timely. As a teacher, I find the list of relevant Web addresses after most chapters to be especially valuable."--Håkan Olsson, Department of Forest Research Management, Swedish University of Agricultural Sciences

"The text provides comprehensive coverage of principal topics and serves as a framework for organizing the vast amount of remote sensing information available on the web. Featuring case studies and review questions, the book's 21 chapters are carefully designed as independent units that instructors can select from

as needed for their courses."
(*Lunar and Planetary Information Bulletin* 2011-12-03)

"An outstanding guide to the student as well as the experienced user of remotely sensed data. The book provides a clear overview and context for further study. The transition from analog to digital is explained extremely well without leaving out the fundamentals required to have a complete understanding. New topics including object-based image analysis are included. This book is an excellent text for an introductory remote sensing course. It is also an appropriate addition to anyone's library who is trying hard to keep up with all the changes in the remote sensing technology. This book has a valued place on my bookshelf."
(*Photogrammetric Engineering and Remote Sensing* 2012-06-01)

About the Author

James B. Campbell is Professor of Geography at Virginia Tech, where he teaches remote sensing, quantitative methods, and geomorphology. He has worked closely with students and faculty in related fields such as forestry, geology, agronomy, environmental sciences, and planning. Since 1997 he has served as Codirector of Virginia Tech’s Center for Environmental Applications of Remote Sensing (CEARS). The author of numerous technical articles and several books, Dr. Campbell has received the Outstanding Service Award and the Fellow Award of the American Society for Photogrammetry and Remote Sensing. He is also a recipient of the Outstanding Service Medal awarded by the Remote Sensing Specialty Group of the Association of American Geographers. Dr. Campbell has been active in the AmericaView Program, including service as a principal investigator for the VirginiaView consortium and as a member and chair of the AmericaView Board of Directors.

Randolph H. Wynne is Professor in the Forest Resources and Environmental Conservation Department at Virginia Tech. He also serves as Remote Sensing Team Leader for the Forest Productivity Cooperative, Associate Director of the Conservation Management Institute, and Codirector of CEARS. He teaches courses in forest photogrammetry and spatial data processing and remote sensing of natural resources. Dr. Wynne’s research interests are in the applications of remote sensing to forestry, natural resource management, ecology, ecosystem services, and earth system science.

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From reader reviews:

Anthony McDonell:

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