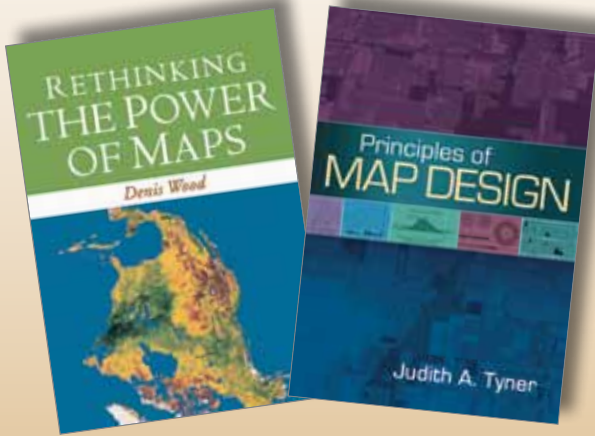


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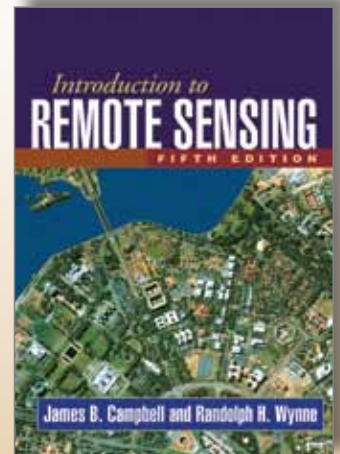
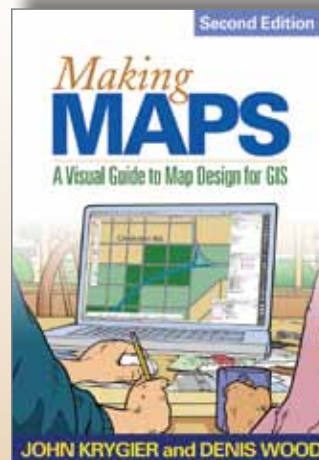
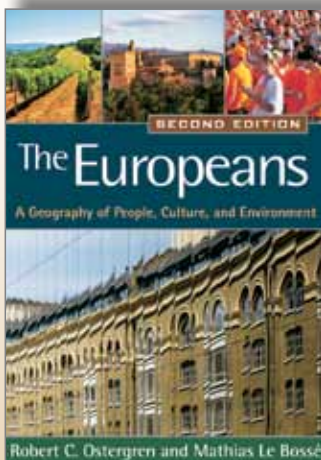
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# Introduction to Remote Sensing

FIFTH EDITION

James B. Campbell and Randolph H. Wynne

“*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, Bournemouth University, UK

“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, Swedish University of Agricultural Sciences, Sweden

**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. Featuring case studies and review questions, the book's 4 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.

This book will be important reading for students in a variety of disciplines, including geography, forestry, hydrology, and planning; also of interest to professionals who utilize remotely sensed data. It will also be a core text for undergraduate- and graduate-level remote sensing courses.

## CONTENTS

**Part 1. Foundations.** History and Scope of Remote Sensing. Electromagnetic Radiation.

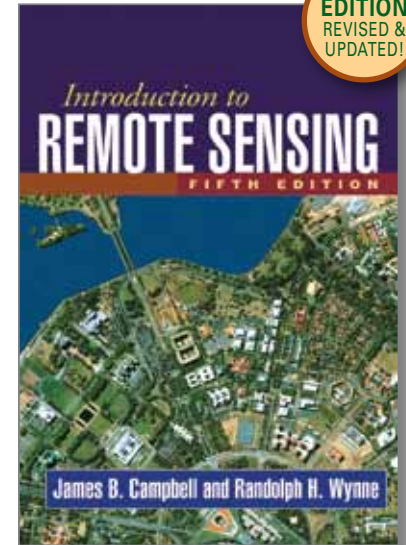
**Part 2. Image Acquisition.** Mapping Cameras. Digital Imagery. Image Interpretation. Land Observation Satellites. Active Microwave. Lidar. Thermal Imagery. Image Resolution.

**Part 3. Analysis.** Preprocessing. Image Classification. Field Data. Accuracy Assessment. Hyperspectral Remote Sensing. Change Detection.

**Part 4. Applications.** Plant Sciences. Earth Sciences. Hydrospheric Sciences. Land Use and Land Cover. Global Remote Sensing. Conclusion. The Outlook for the Field of Remote Sensing: The View from 2011.

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## ABOUT THE AUTHORS

**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. 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.

**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.

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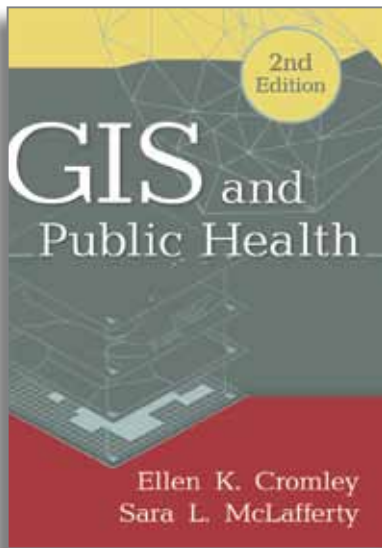
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#### ABOUT THE AUTHORS

**Ellen K. Cromley**, is Assistant Clinical Professor in the Department of Community Medicine and Health Care, University of Connecticut School of Medicine, Farmington. Previously, she was Professor of Geography at the University of Connecticut, Storrs. Dr. Cromley's research is primarily concerned with geographical patterns of health and disease, health facility location, and GIS design to support public health surveillance and intervention programs. She has published articles in geography, epidemiology, public health, and health services journals.

**Sara L. McLafferty** is Professor of Geography at the University of Illinois at Urbana-Champaign. In her research she explores the use of spatial statistical methods and GIS for understanding health and social issues in cities, as well as gender and racial disparities in geographical access to services and employment opportunities. Dr. McLafferty has published articles in geography, epidemiology, and urban studies journals and is an Associate Editor of the journal *Health and Place*.

# GIS and Public Health

SECOND EDITION

Ellen K. Cromley and Sara L. McLafferty



“Cromley and McLafferty have done it again! They’ve written the most comprehensive text available on GIS applications for public health. The last several years have seen rapid growth in public health applications of GIS, technological developments in mapping and imagery, and the availability of public health data, all of which are addressed in the book. Other updates in the second edition include reorganization of material, international applications, and a chapter on health disparities. The authors have outdone themselves with the clarity, completeness, and relevance of this book. Whether you’re new to the practice of public health GIS or an experienced GIS user, you will benefit from the wealth of material provided.”

- Carol Hanchette, University of Louisville, USA

“A much-needed introduction to GIS for students, faculty, and professionals preparing to research or practice in public health. The second edition illustrates many new developments in the use of geospatial data, including spatial analysis methods now widely available on the Internet. It defines the terminology of GIS and shows how spatial analysis methods are used to understand and improve health. International in scope, the book covers mapping of disease rates, access to health services, environmental hazards and their health effects, diffusion of infectious diseases, community influences on health behavior, and the ecology of vector-borne diseases.”

- Gerard Rushton, University of Iowa, USA

**A**uthoritative and comprehensive, this is the leading text and professional resource on using geographic information systems (GIS) to analyze and address public health problems. Basic GIS concepts and tools are explained, including ways to access and manage spatial databases. The book presents state-of-the-art methods for mapping and analyzing data on population, health events, risk factors, and health services, and for incorporating geographical knowledge into planning and policy. Numerous maps, diagrams, and real-world applications are featured. The companion Web page provides lab exercises with data that can be downloaded for individual or course use.

#### NEW TO THIS EDITION

- Incorporates major technological advances, such as Internet-based mapping systems and the rise of data from cell phones and other GPS-enabled devices.
- Chapter on health disparities.
- Expanded coverage of public participation GIS.
- Companion Web page has all-new content.
- Goes beyond the United States to encompass an international focus

#### CONTENTS

- |   |   |
|---|---|
| 1. Introduction   | 8. Exploring the Ecology of Vector-Borne Disease  |
| 1. Geographic Information Systems                       | 9. Analyzing Access to Health Services            |
| 2. Spatial Data   | 10. Locating Health Services                      |
| 3. Spatial Databases for Public Health                  | 11. Health Disparities                            |
| 4. Mapping Health Information                           | 12. Public Participation GIS and Community Health |
| 5. Analyzing Spatial Clustering of Health Events        |   |
| 6. Analyzing Environmental Hazards                      |   |
| 7. Analyzing the Risk and Spread of Infectious Diseases |   |

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# A Geography of Russia and Its Neighbors

Mikhail S. Blinnikov

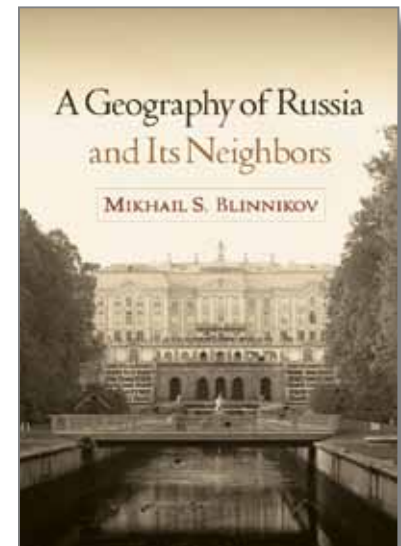
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“A timely, insightful, well-written and engaging volume on contemporary Russia’s economies, recent history, environmental settings, and enduring legacies. Personal reflections and observations add to the book’s strengths. I will definitely use this text the next time I teach a class on the former Soviet Union. It is far ahead of any previous book on the region.”  
- Stanley D. Brunn, University of Kentucky, USA

“Goes well beyond the bounds of a general geography text, giving students the historical and political context that will help them engage more thoughtfully with the material. The author doesn’t shy away from interjecting his own insights about the personalities that have shaped contemporary Russia. For the student, this brings to life some of the major actors whose names would otherwise get lost on the page. Each chapter is followed by review questions and exercises that will prepare both instructors and students for class discussion, making the book useful for both lecture courses and seminars.”  
- Melinda Herrold-Menzies, The Claremont Colleges, USA

**C**omprehensive and authoritative, this text offers an accessible introduction to post-Soviet Eurasia. Students get a solid grounding in the physical, cultural, political, and economic geography of this rapidly changing region. Core thematic chapters focus primarily on Russia but also incorporate relevant information on the other 14 former Soviet republics. Regional chapters provide concise discussions of each republic and of Russia’s main regions. Student-friendly features include engaging vignettes, review questions, exercises, recommendations for further reading, and Internet resources. The volume’s over 200 original maps, photographs, and other figures are also available online as PowerPoint slides.

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## ABOUT THE AUTHOR



**Mikhail S. Blinnikov** is Professor of Geography and Graduate Coordinator at St. Cloud State University in St. Cloud, Minnesota, USA. He is

a native of Moscow, Russia, and has traveled widely and conducted extensive fieldwork in the former Soviet Union.

*This title is in the Texts in Regional Geography series. See page 4 & 13 for other important series titles.*

## CONTENTS

- |  |   |  |
|--|---|--|
| 1. Introduction: Russia and Post-Soviet Northern Eurasia | 13. Cultures and Languages  | 23. Russia's Northwest: Fishing, Timber, and Culture           |
| <b>I. Physical Geography</b>                             | 14. Religion, Diet, and Dress   | 24. The Volga: Cars, Food, and Energy                          |
| 2. Relief and Hydrography                                | 15. Education, Arts, Sciences, and Sports                                   | 25. The Caucasus: Cultural Diversity and Political Instability |
| 3. Climate   | 16. Tourism   | 26. The Urals: Metallurgy, Machinery, and Fossil Fuels         |
| 4. Biomes  | <b>IV. Economics</b>  | 27. Siberia: Great Land  |
| 5. Environmental Degradation and Conservation            | 17. Oil, Gas, and Other Energy Sources                                      | 28. The Far East: The Russian Pacific                          |
| <b>II. History and Politics</b>                          | 18. Heavy Industry and the Military Complex                                 | 29. The Baltics: Europeysky, Not Sovetsky                      |
| 6. Formation of the Russian State                        | 19. Light Industry and Consumer Goods                                       | 30. Eastern Europeans: Ukraine, Belarus, and Moldova           |
| 7. The Soviet Legacy                                     | 20. Fruits of the Earth: Agriculture, Hunting, Fishing, and Forestry        | 31. Central Asia: The Heart of Eurasia                         |
| 8. Post-Soviet Reforms                                   | 21. Infrastructure and Services   | 32. Epilogue: Engaging with Post-Soviet Northern Eurasia       |
| 9. The Geopolitical Position of Russia in the World      | <b>V. Regional Geography of Russia and Other Former Soviet Union States</b> |  |
| <b>III. Cultural and Social Geography</b>                | 22. Central Russia: The Heart of the Country                                |  |
| 10. Demographics and Population Distribution             |   |  |
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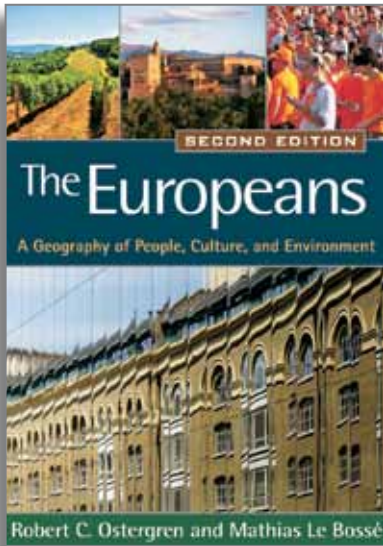
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#### ABOUT THE AUTHORS

**Robert C. Ostergren** is Professor of Geography at the University of Wisconsin–Madison, USA. He has lived, studied, and traveled extensively in Europe, and is the author of many publications about European and North American cultural and historical geography. He is a recipient of the University of Wisconsin’s Chancellor’s Award for Distinguished Teaching.

**Mathias Le Bossé** is Assistant Professor of Geography at Kutztown University of Pennsylvania, where he teaches a variety of courses in human, cultural, and regional geography. As a cultural and political geographer, he has published mainly on issues of identity, regionalism, and nationalism in the context of European integration.

*This title is in the Texts in Regional Geography series. See page 3 & 13 for other important series titles.*

# The Europeans

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- Micheline van Riemsdijk, University of Tennessee, USA

“This volume is an excellent general text for undergraduate students of geography and all others interested in a thorough introduction to this most important region. It is very well written, tightly edited and nicely structured so that it holds the reader’s attention....This book’s structure is refreshing and engaging....Virtually every important point made in the text is supplemented by a map, table, or photograph. The maps are especially clear, well chosen, and useful.”

- *Regional Studies*

**T**his leading text offers a comprehensive, richly nuanced, and authoritative introduction to European geography. Coverage encompasses the entire region: its physical setting and environment, population and migration, languages and religions, and political organization. Particular attention is given to historic and contemporary features of the diverse urban environments in which most Europeans live, work, and play. Combining vivid description, essential information, and cogent analysis, the text is illustrated with more than 200 photographs and 64 maps.

#### NEW TO THIS EDITION

- Fully updated to reflect ongoing changes in this dynamic region.
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#### CONTENTS

- |  |   |
|--|---|
| 1. Introduction: Europe as a Culture Realm | <b>III. Towns and Cities</b>                  |
| 1. People and Environment                  | 8. Cities and Urban Life to World War I       |
| 2. European Environments                   | 9. Modern and Postmodern Urbanism             |
| 3. Population                              | <b>IV. Work and Leisure</b>                   |
| 4. Human-Environment Interaction           | 10. Making a Living                           |
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# Principles of Map Design

Judith A. Tyner

“Judith Tyner is eminently qualified to provide us with a textbook of this ilk having taught all aspects of cartography over approximately 35 years, spanning the most interesting and fast changing period of development in modern cartography. This book brings us right up to date in a clear and readable manner supporting the traditional principles many feel have been lost in the growing output of mapping from Geographic Information Systems....With the decline of college and university courses teaching cartography, and the increasing use of maps in many guises both in the work place and for recreational use, there is a need for a good textbook to bring practitioners up to date, and also to reinvigorate the principles of good design in the cartographic process. Judith Tyner’s book provides just such a text, and it is also well illustrated with a pleasingly clean design and layout.”

- Rosemary Duncan, *Society of Cartographers Bulletin*, Vol. 44, UK

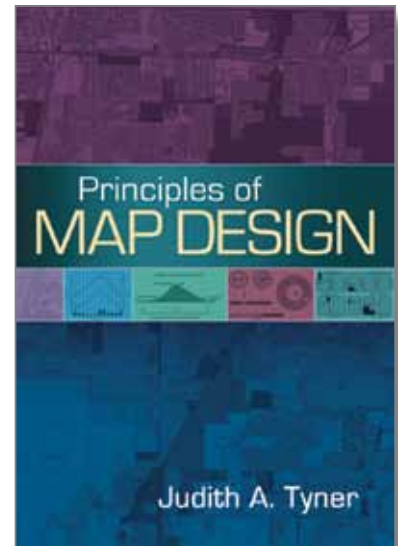
“From a respected cartographer, this is a well-written and easy-to-understand textbook for an introductory course in cartography or map design. A major advantage of this book is that it does not focus on specific GIS software; rather, the design principles can be applied to any GIS software used to make maps. Design considerations for exciting new mapping technologies - such as web mapping, animated and interactive maps, and maps for the visually impaired - are also covered.”

- Michael Leitner, Louisiana State University; USA, Editor, *Cartography and Geographic Information Science*

This authoritative, reader-friendly introductory text presents core principles of good map design that apply regardless of production methods or technical approach. The book addresses the crucial questions that arise at each step of making a map: Who is the audience? What is the purpose of the map? Where and how will it be used? Students get the knowledge needed to make sound decisions about data, typography, color, projections, scale, symbols, and nontraditional mapping and advanced visualization techniques.

The book’s utility is enhanced by over 200 illustrations, including 23 color plates; suggested readings at the end of each chapter; a glossary; and recommended Web resources. All of the figures are also available online as PowerPoint slides.

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## ABOUT THE AUTHOR



**Judith A. Tyner** is Professor Emerita of Geography at California State University Long Beach, USA. She taught in the Geography Department for over

35 years, where she served as Department Chair and as Director of the Cartography/GIS Certificate Program from its inception until her retirement. She is the author of two previous textbooks and over 30 articles.

## CONTENTS

### I. Map Design

1. Introduction
2. Planning and Composition
3. Text Material and Typography
4. Color in Cartographic Design

### II. The Geographic and Cartographic Framework

5. Scale, Compilation, and Generalization
6. The Earth’s Graticule and Projections

### III. Symbolization

7. Basics of Symbolization
8. Symbolizing Geographic Data
9. Multivariate Mapping

### IV. Nontraditional Mapping

10. Cartograms and Diagrams
11. Continuity and Change in the Computer Era

### V. Critique of Maps

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- Appendix A. Commonly Used Projections
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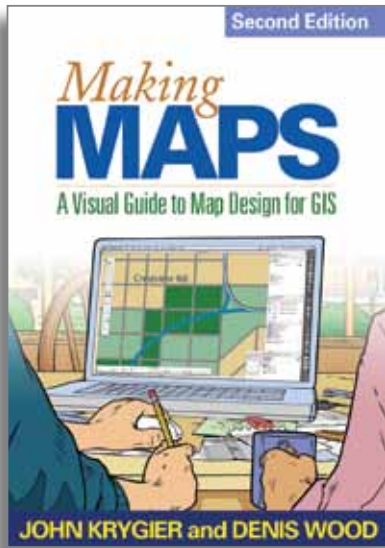
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#### ABOUT THE AUTHORS

**John Krygier** teaches in the Department of Geology and Geography at Ohio Wesleyan University, USA, with teaching and research specializations in cartography, geographic information systems (GIS), and environmental and human geography.

**Denis Wood** curated the award-winning Power of Maps exhibition for the Smithsonian and writes widely about maps. Recent books include *The Natures of Maps*, *Rethinking the Power of Maps* (p. 7), and *Everything Sings: Maps for a Narrative Atlas*. A former professor of design at North Carolina State University, USA, Wood is a currently an independent scholar living in Raleigh, North Carolina, USA.

# Making Maps

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A Visual Guide to Map Design for GIS

John Krygier and Denis Wood

“Krygier and Wood’s book should be used by anyone interested in the way the world looks, the way the world works, or the way the world should be. It remains the most accessible yet comprehensive guide of its kind. The second edition meets the needs and expectations of the ‘Google generation’ of map users while remaining true to the guiding principles that govern how maps look, work, and function. The very accessible, extensively illustrated format makes the book easily usable by students at all levels, as well as those taking steps to develop expertise in cartographic design.”

- Paul Longley, University College London, UK

“Building on their solid first edition, Krygier and Wood have created a new and much richer follow-up. The second edition represents a serious reworking of subject matter and graphics. The book uses extraordinary map exemplars to address the full range of basic cartographic concepts and to demonstrate many subtle and advanced design techniques as well. Making Maps is appropriate for beginning to intermediate college cartography students and others who want to tap into the power of map creation. Addressing current social issues including map agendas, ethics, and democracy, it is the kind of book that will inspire readers and cultivate admiration for the field.”

- James E. Meacham, University of Oregon, USA

**A**claimed for its innovative use of visual material, this book is engaging, clear, and compelling—exactly how an effective map should be. Nearly every page is organized around maps and other figures (many in full color) that illustrate all aspects of map making, including instructive examples of both good and poor design choices. The book covers everything from locating and processing data to making decisions about layout, symbols, color, and type. Readers are invited to think critically about both the technical features and social significance of maps as they learn to create better maps of their own.

#### NEW TO THIS EDITION

- Extensively revised and expanded core chapters on map design.
- An annotated map design exemplar is used to show how the concepts in each chapter play out on an actual map.
- Updated to reflect current technological developments.
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#### CONTENTS

- |                             |  |
|-----------------------------|--|
| 1. How to Make a Map        | 7. Inner Workings                        |
| 2. What’s Your Map For?     | 8. Map Generalization and Classification |
| 3. Mappable Data            | 9. Map Symbolization                     |
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- Chris Perkins, University of Manchester, UK

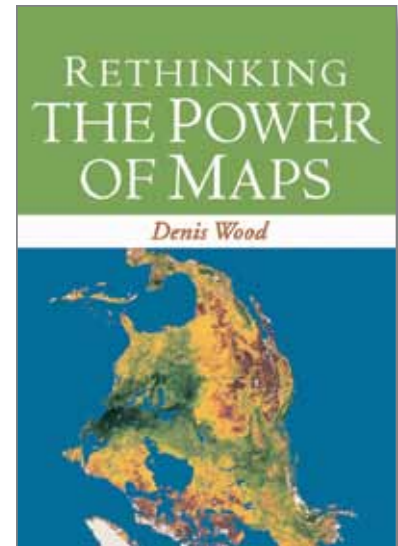
“*Rethinking the Power of Maps* sharpens the argument of Wood’s earlier work and focuses its attention on the construction of power. Every student of cartography should take notice.”

- Nicholas Chrisman, Université Laval, Québec, Canada

“A captivating contribution to our understanding of maps and mapping practice. Wood offers a broad canvas of maps, map makers, and map users, linking traditional cartographies to exciting new experiments. He explores the ways in which, as maps make propositions about the world, they shape how we understand and live in it. This is a book you cannot put down and one that demands to be read in one or two sittings. It may be the best book on maps and mapping I have read.”

- John Pickles, University of North Carolina at Chapel Hill, USA

**T**his book takes a fresh look at what maps do, whose interests they serve, and how they can be used in surprising, creative, and radical ways. Denis Wood describes how cartography facilitated the rise of the modern state and how maps continue to embody and project the interests of their creators. He demystifies the hidden assumptions of mapmaking and explores the promises and limitations of diverse counter-mapping practices today. Thought-provoking illustrations include U.S. Geological Survey maps; electoral and transportation maps; and numerous examples of critical cartography, participatory GIS, and map art.



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## CONTENTS

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### I. Mapping

1. Maps Blossom in the Springtime of the State
2. Unleashing the Power of the Map
3. Signs in the Service of the State
4. Making Signs Talk to Each Other

### II. Counter-Mapping

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8. Mapmaking, Counter-Mapping, and Map Art in the Mapping of Palestine

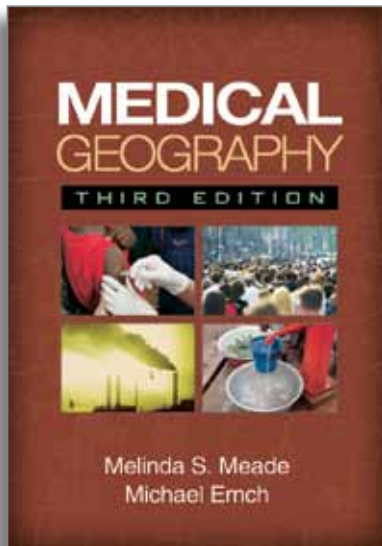
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#### ABOUT THE AUTHORS

**Melinda S. Meade** is Professor of Geography at the University of North Carolina at Chapel Hill, USA. She is also Adjunct Professor of Epidemiology, a member of the Institute of Environment, and a fellow of the Carolina Population Center.

**Michael Emch** is Associate Professor of Geography at the University of North Carolina at Chapel Hill, USA, where he directs the Spatial Health Research Group. He is also Adjunct Associate Professor of Epidemiology and a fellow of the Carolina Population Center.

# Medical Geography

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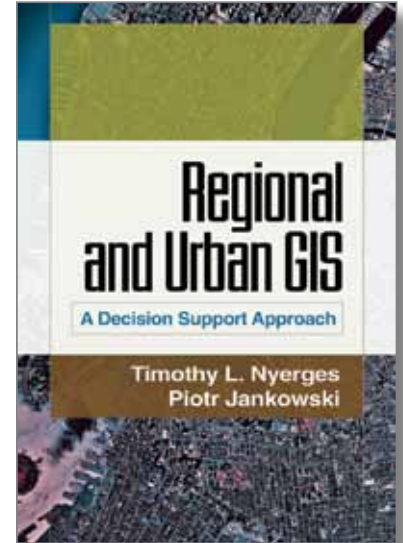
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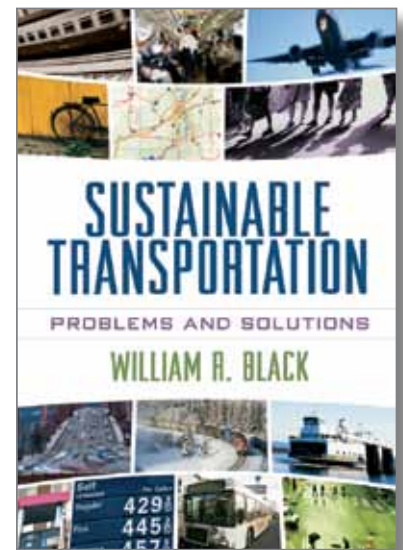
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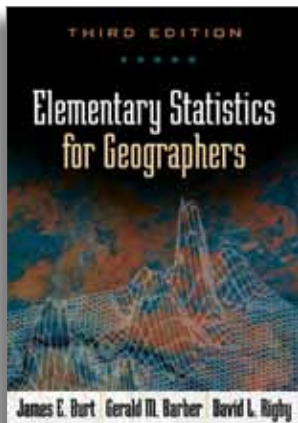
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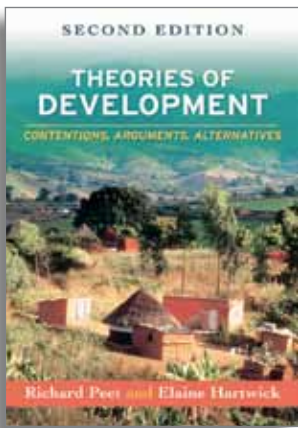
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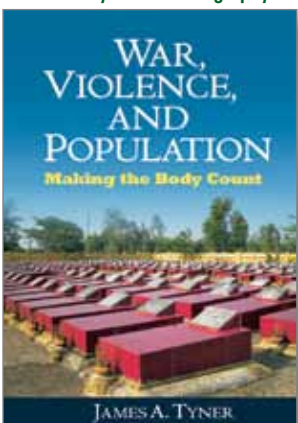
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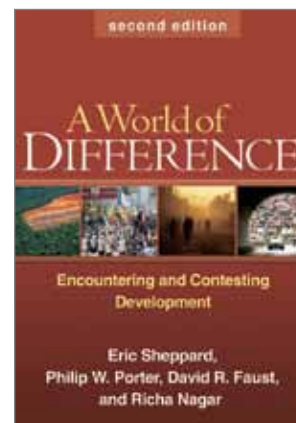
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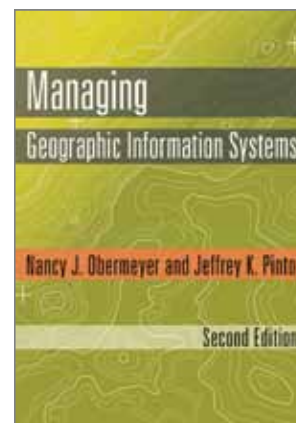
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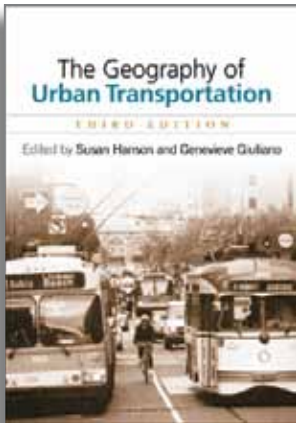
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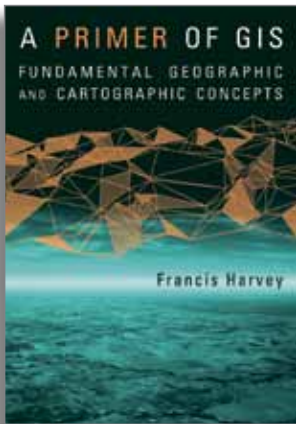
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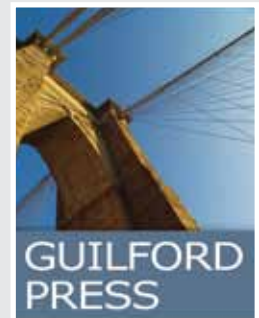
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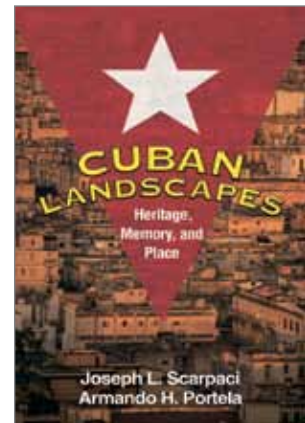
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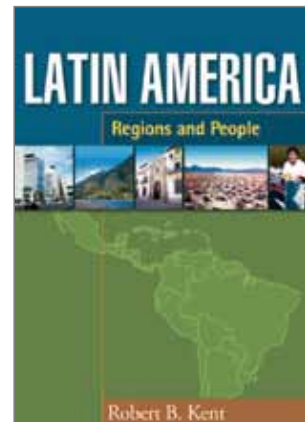
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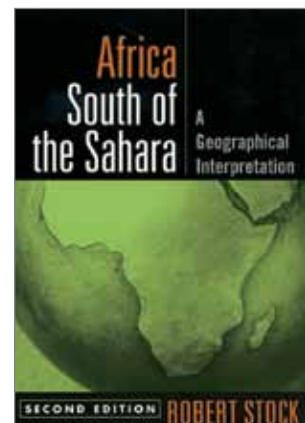
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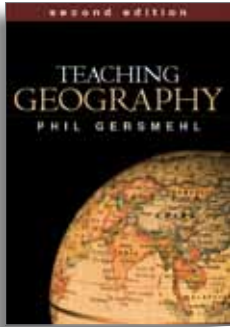
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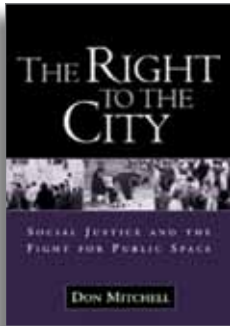
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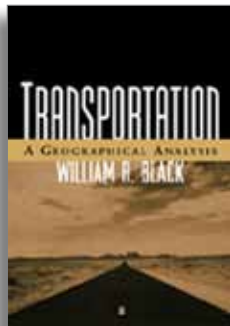
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