



A Primer of GIS, Second Edition: Fundamental Geographic and Cartographic Concepts

By Francis Harvey PhD



Download



Read Online



Get Print Book

A Primer of GIS, Second Edition: Fundamental Geographic and Cartographic Concepts By Francis Harvey PhD

This accessible text prepares students to understand and work with geographic information systems (GIS), offering a detailed introduction to essential theories, concepts, and skills. The book is organized in four modular parts that can be used in any sequence in entry-level and more specialized courses. Basic cartographic principles are integrated with up-to-date discussions of GIS technologies and applications. Coverage includes everything from what geographic information is to its many uses and societal implications. Practical examples and exercises invite readers to explore the choices involved in producing reliable maps and other forms of geographic information. Illustrations include 170 figures (with 15 in color). The companion website provides links to Web resources for each chapter, plus downloadable PowerPoint slides of most of the figures.

New to This Edition

- *Chapter on online mapping and Big Data.
- *New and updated discussions of remote sensing, vector and raster data models, location privacy, uses of geocoding, and other timely topics.
- *Chapter on the many uses of GIS, such as in market analyses, emergency responding, and tracking of epidemics.
- *Section overviews and an end-of-book glossary.

Pedagogical Features

- *Modules and individual chapters can be used sequentially or in any order.
- *End-of-chapter review questions with answers, exercises, and extended exercises for applying theories and concepts.
- *"In-Depth" sidebars offering a closer look at key concepts and applications.
- *End-of-chapter links to relevant Web resources.



[Download A Primer of GIS, Second Edition: Fundamental Geogr ...pdf](#)



[Read Online A Primer of GIS, Second Edition: Fundamental Geo ...pdf](#)

A Primer of GIS, Second Edition: Fundamental Geographic and Cartographic Concepts

By Francis Harvey PhD

A Primer of GIS, Second Edition: Fundamental Geographic and Cartographic Concepts By Francis Harvey PhD

This accessible text prepares students to understand and work with geographic information systems (GIS), offering a detailed introduction to essential theories, concepts, and skills. The book is organized in four modular parts that can be used in any sequence in entry-level and more specialized courses. Basic cartographic principles are integrated with up-to-date discussions of GIS technologies and applications. Coverage includes everything from what geographic information is to its many uses and societal implications. Practical examples and exercises invite readers to explore the choices involved in producing reliable maps and other forms of geographic information. Illustrations include 170 figures (with 15 in color). The companion website provides links to Web resources for each chapter, plus downloadable PowerPoint slides of most of the figures.

New to This Edition

- *Chapter on online mapping and Big Data.
- *New and updated discussions of remote sensing, vector and raster data models, location privacy, uses of geocoding, and other timely topics.
- *Chapter on the many uses of GIS, such as in market analyses, emergency responding, and tracking of epidemics.
- *Section overviews and an end-of-book glossary.

Pedagogical Features

- *Modules and individual chapters can be used sequentially or in any order.
- *End-of-chapter review questions with answers, exercises, and extended exercises for applying theories and concepts.
- *"In-Depth" sidebars offering a closer look at key concepts and applications.
- *End-of-chapter links to relevant Web resources.

A Primer of GIS, Second Edition: Fundamental Geographic and Cartographic Concepts By Francis Harvey PhD **Bibliography**

- Sales Rank: #1243350 in Books
- Published on: 2015-10-29
- Original language: English
- Number of items: 1
- Dimensions: 10.00" h x .64" w x 7.00" l, .0 pounds
- Binding: Paperback
- 360 pages

 [Download A Primer of GIS, Second Edition: Fundamental Geogr ...pdf](#)

 [Read Online A Primer of GIS, Second Edition: Fundamental Geo ...pdf](#)

Editorial Review

Review

"Harvey provides a unique resource that blends presentation of geographic information concepts, cartography principles, and GIS technology application. The well-developed linkages between geographic information and cartography are particularly valuable. All levels of readers will rediscover the importance of appropriate mapping technique in GIS practice, whether in the desktop, Web, or mobile environment. The second edition has been thoroughly updated and includes new material on Web applications and Big Data issues. While the contents are organized to provide a comprehensive overview of GIS, individual sections and chapters can also be flexibly used as stand-alone modules."--Jeff Hamerlinck, PhD, Director, Wyoming Geographic Information Science Center, University of Wyoming

"A well-written text that introduces the fundamentals of spatial geographic information. The coverage is broad and up to date, and the concepts are well explained. I like the pedagogical features--the end-of-chapter review questions with answers will help students understand the concepts and methods discussed in lectures, and the end-of-chapter exercises and extended exercises will further strengthen students' understanding of course materials."--Jun Liang, PhD, Department of Geography, University of North Carolina at Chapel Hill

"The writing style is authoritative yet genial, and doesn't overwhelm the reader, as other texts on this topic may do. For example, the author invites the reader to look out the window and then view a map of the same area, a simple exercise that makes the experience of reading personal, immediate, and interactive. The discussion of map projections and geoid, ellipsoid, and spheroid models is robust; this is an underlying concept of GIS, and one of the most difficult for students to comprehend, so it is important to give it such focused attention."--Karen E. Blevins, MA, Geography Program, Mesa Community College

"An invaluable resource for a broad range of students and instructors. The text puts human communication about the environment before GIS commands and file formats. The engaging, conversational style provides easy access to rich insights on how maps and geographic information are used to answer important questions. The text covers a wide range of issues pertaining to mapping in the digital age, from measurement to decision making. It will make the reader curious to dig deeper into the many human, technical, and organizational aspects discussed. Harvey's emphasis on choices to make in communicating about the environment fosters dearly needed critical thinking about geographic representations and computations."--Werner Kuhn, PhD, Jack and Laura Dangermond Chair, Department of Geography, University of California, Santa Barbara

"A great introduction to cartographic analysis and GIS. Harvey covers a broad range of information that will appeal to many students and professionals with different specializations in geography. The text encourages the reader to think critically about the implications of using GIS and the future of the field. The material is up to date and includes helpful hands-on examples and exercises. I was happy to see the new chapter on online mapping, which covers very current topics, such as Big Data. I also like the detailed description of geocoding and the revamped discussion of privacy and surveillance. This is an enjoyable text to read, and one that I will definitely recommend."--Holly M. Widen, PhD candidate, Department of Geography, Florida State University

"This solid introductory text presents fundamental concepts in an easy and accessible manner that brings

complicated content to life. The sequencing of the book makes it possible for instructors to switch the chapters around. It provides an essential framework that allows me the flexibility to fill in additional details that I want my students to have on a particular topic. At the same time, I feel confident that students who read only this book would have a solid understanding of the central concepts of GIS."--Timothy LeDoux, PhD, Department of Geography and Regional Planning, Westfield State University

"A substantive introduction to our rapidly expanding field. The second edition includes a new overview of GIS that is chock full of teachable applications from across the industry; new and updated figures; and a section focused on Web GIS, big data, and online mapping. Harvey conducts a broad-brush tour across the constellation of geotechnologies that have been swept into the realm of GIS, such as global navigation satellite systems and remote sensing. This text will serve well for students and professionals who are starting out fresh or entering the field from another discipline."--Patrick McHaffie, PhD, Department of Geography, DePaul University

"Harvey...packs a tremendous amount of information into a single volume. It is arranged with a textbook presentation, including discussion questions and exercises. This could have become a simple taxonomy, but Harvey presents the key issues in clear language. Mapping sciences have evolved rapidly in recent years; this book reflects the transition from cartography to geographic information use....This is an excellent option for instructors building an introductory lecture/lab course who need a primary text....Recommended. Lower-division undergraduates."

(*Choice Reviews* 2016-10-01)

"An important contribution....Provides the beginner as well as the more advanced GIS user with the knowledge to bridge the gap between the conceptual and the practical in GIS....The concepts, principles, issues, and applications covered in the book are important to all aspects of GIS-related planning issues in all parts of the world, and most students, teachers, and practitioners will gain valuable insight from this book, particularly those without a background in GIS or geography." (on the first edition)

(*International Planning Studies* 2010-02-01)

About the Author

Francis Harvey, PhD, is Head of the Department of Cartography and Visual Communication at the Leibniz Institute for Regional Geography and Professor of Visual Communication in Geography at Leipzig University in Germany. He was formerly Associate Professor in the Department of Geography, Environment, and Society at the University of Minnesota. Dr. Harvey's research addresses a range of central issues in geographic information science, including visualization, ethics, values, institutional aspects, cadastral issues, pedagogy, and overlay algorithms. His teaching has covered the use of evolving geographic information technologies for undergraduates and graduate students in the United States and internationally. Currently, he is Chair of the International Geographical Union Commission on Geographic Information Science.

Users Review

From reader reviews:

Darren Marshall:

Now a day people that Living in the era exactly where everything reachable by match the internet and the resources inside can be true or not involve people to be aware of each details they get. How people have to

be smart in receiving any information nowadays? Of course the answer then is reading a book. Looking at a book can help people out of this uncertainty Information especially this A Primer of GIS, Second Edition: Fundamental Geographic and Cartographic Concepts book since this book offers you rich info and knowledge. Of course the data in this book hundred pct guarantees there is no doubt in it you may already know.

Hilda Baker:

The e-book untitled A Primer of GIS, Second Edition: Fundamental Geographic and Cartographic Concepts is the guide that recommended to you to learn. You can see the quality of the e-book content that will be shown to an individual. The language that creator use to explained their way of doing something is easily to understand. The copy writer was did a lot of exploration when write the book, to ensure the information that they share to you personally is absolutely accurate. You also could possibly get the e-book of A Primer of GIS, Second Edition: Fundamental Geographic and Cartographic Concepts from the publisher to make you far more enjoy free time.

Diana Castillo:

The reserve with title A Primer of GIS, Second Edition: Fundamental Geographic and Cartographic Concepts has a lot of information that you can understand it. You can get a lot of gain after read this book. That book exist new expertise the information that exist in this book represented the condition of the world today. That is important to yo7u to know how the improvement of the world. This particular book will bring you within new era of the the positive effect. You can read the e-book on your smart phone, so you can read the idea anywhere you want.

Jacob Brown:

What is your hobby? Have you heard which question when you got students? We believe that that concern was given by teacher on their students. Many kinds of hobby, All people has different hobby. And you also know that little person just like reading or as looking at become their hobby. You should know that reading is very important as well as book as to be the factor. Book is important thing to provide you knowledge, except your personal teacher or lecturer. You discover good news or update regarding something by book. Different categories of books that can you choose to use be your object. One of them is this A Primer of GIS, Second Edition: Fundamental Geographic and Cartographic Concepts.

**Download and Read Online A Primer of GIS, Second Edition:
Fundamental Geographic and Cartographic Concepts By Francis
Harvey PhD #VSM0J1CNDXI**

Read A Primer of GIS, Second Edition: Fundamental Geographic and Cartographic Concepts By Francis Harvey PhD for online ebook

A Primer of GIS, Second Edition: Fundamental Geographic and Cartographic Concepts By Francis Harvey PhD Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read A Primer of GIS, Second Edition: Fundamental Geographic and Cartographic Concepts By Francis Harvey PhD books to read online.

Online A Primer of GIS, Second Edition: Fundamental Geographic and Cartographic Concepts By Francis Harvey PhD ebook PDF download

A Primer of GIS, Second Edition: Fundamental Geographic and Cartographic Concepts By Francis Harvey PhD Doc

A Primer of GIS, Second Edition: Fundamental Geographic and Cartographic Concepts By Francis Harvey PhD Mobipocket

A Primer of GIS, Second Edition: Fundamental Geographic and Cartographic Concepts By Francis Harvey PhD EPub