
Gis Fundamentals A First Text On Geographic Information Systems

*Gis Fundamentals A First Text On
Geographic Information Systems*

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GIS Fundamentals

A First Text on Geographic Information Systems

GIS Fundamentals

A First Text on Geographic Information Systems

A Primer of GIS

Fundamental Geographic and Cartographic Concepts

Guilford Press

This textbook examines the choices considered when creating geographic representations and cartographic representations,

transforming spherical coordinates to planar coordinates, and modeling geographic data. Harvey (geography, University of Minnesota) introduces the three generic options for recording the locations and characteristics of things and events, the principles of remote sensing, map design elements, and geostatistical methods. Fifteen color plates are provided in the middle of the book, while black and white images are scattered throughout.

GIS Basics *CRC Press*

Geographical Information Systems (GIS) are computer systems for storing, displaying and analyzing spatial data. The past twenty years have seen a rapid growth in their use in government, commerce and academia, and they can be used for managing a network of utilities, from handling census data through to planning the location of a new supermarket. But how do they work? Stephen Wise has been a regular contributor to GeoEurope and his 'Back to Basics' articles have provided a clear and simple introduction to the inner workings of GIS for a non-specialist audience. He now presents the original articles with new material and provides a new coverage of both major types of GIS: vector and raster systems. Undergraduates and professionals who wish to improve their knowledge of GIS should get a better understanding of how GIS operate in the way that they do, such as how spatial data is stored on a computer, how the different methods affect the capabilities of the GIS, how basic operations performed and how the choice of algorithm affects the speed of the system.

Geographic Information Systems (GIS) for Disaster

Management *CRC Press*

Now in its second edition, Geographic Information Systems (GIS) for Disaster Management has been completely updated to take account of new developments in the field. Using a hands-on approach grounded in relevant GIS and disaster management theory and practice, this textbook continues the tradition of the benchmark first edition, providing coverage of GIS fundamentals applied to disaster management. Real-life case studies demonstrate GIS concepts and their applicability to the full disaster management cycle. The learning-by-example approach helps readers see how GIS for disaster management operates at local, state, national, and international scales through government, the private sector, non-governmental organizations, and volunteer groups. New in the second edition: a chapter on allied technologies that includes remote sensing, Global Positioning Systems (GPS), indoor navigation, and Unmanned Aerial Systems (UAS); thirteen new technical exercises that supplement theoretical and practical chapter discussions and fully reinforce concepts learned; enhanced boxed text and other pedagogical features to give readers even more practical advice; examination of new forms of world-wide disaster faced by society; discussion of new commercial and open-source GIS technology and techniques such as machine learning and the Internet of Things; new interviews with subject-matter and industry experts on GIS for disaster management in the US and abroad; new career advice on getting a first job in the industry. Learned yet accessible, Geographic Information Systems (GIS) for Disaster Management continues to be a valuable teaching tool for undergraduate and graduate instructors in the disaster

management and GIS fields, as well as disaster management and humanitarian professionals. Please visit <http://gisfordisastermanagement.com> to view supplemental material such as slides and hands-on exercise video walkthroughs. This companion website offers valuable hands-on experience applying concepts to practice.

GIS Fundamentals *CRC Press*

With GIS technology increasingly available to a wider audience on devices from apps on smartphones to satnavs in cars, many people routinely use spatial data in a way which used to be the preserve of GIS specialists. However spatial data is stored and analyzed on a computer still tends to be described in academic texts and articles which require specialist knowledge or some training in computer science. Developed to introduce computer science literature to geography students, *GIS Fundamentals, Second Edition* provides an accessible examination of the underlying principles for anyone with no formal training in computer science. See What's New in the Second Edition: Coverage of the use of spatial data on the Internet Chapters on databases and on searching large databases for spatial queries Improved coverage on route-finding Improved coverage of heuristic approaches to solving real-world spatial problems International standards for spatial data The book begins with a brief but detailed introduction to how computers work and how they are programmed, giving anyone with no previous computer science background a foundation to understand the remainder of the book. As with all parts of the book there are also suggestions for further sources of reading. The book then describes the ways

in which vector and raster data can be stored and how algorithms are designed to perform fundamental operations such as detecting where lines intersect. From these simple beginnings the book moves into the more complex structures used for handling surfaces and networks and contains a detailed account of what it takes to determine the shortest route between two places on a network. The final sections of the book review problems, such as the "Travelling Salesman" problem, which are so complex that it is not known whether an optimum solution exists. Using clear, concise language, but without sacrificing technical rigour, the book gives readers an understanding of what it takes to produce systems which allow them to find out where to make their next purchase and how to drive to the right place to collect it.

GIS Fundamentals

A First Text on Geographic Information Systems, 7th Edition

A comprehensive textbook on the theory and practice of spatial data development, management, and analysis. Software agnostic, intended for the lecture portion of a college-level, foundational course on GIS. Figure rich, with study questions.

Principles of Geographical Information Systems *Oxford University Press*

Geographical data are used in so many aspects of our lives today, from disaster relief operations to finding directions on our cellphones. Geographical Information Systems (GIS) are the

software tools that turn raw data into useful information that can help us understand our world better. *Principles of Geographical Information Systems* presents a strong theoretical basis for GIS—often lacking in other texts—and an account of its practice. Through real-world examples, this text clearly explains the importance of spatial data and the information systems based upon them in solving a range of practical problems.

Getting Started with Geographic Information Systems
Prentice Hall

This best-selling non-technical, reader-friendly introduction to GIS makes the complexity of this rapidly growing high-tech field accessible to beginners. It uses a “learn-by-seeing” approach that features clear, simple explanations, an abundance of illustrations and photos, and generic practice labs for use with any GIS software. What Is a GIS? GIS's Roots in Cartography. Maps as Numbers. Getting the Map into the Computer. What Is Where? Why Is It There? Making Maps with GIS. How to Pick a GIS. GIS in Action. The Future of GIS. For anyone interested in a hands-on introduction to Geographic Information Systems.

Introduction to GIS Programming and Fundamentals with Python and ArcGIS® *CRC Press*

Combining GIS concepts and fundamental spatial thinking methodology with real programming examples, this book introduces popular Python-based tools and their application to solving real-world problems. It elucidates the programming constructs of Python with its high-level toolkits and demonstrates its integration with ArcGIS Theory. Filled with hands-on computer

exercises in a logical learning workflow this book promotes increased interactivity between instructors and students while also benefiting professionals in the field with vital knowledge to sharpen their programming skills. Readers receive expert guidance on modules, package management, and handling shapefile formats needed to build their own mini-GIS. Comprehensive and engaging commentary, robust contents, accompanying datasets, and classroom-tested exercises are all housed here to permit users to become competitive in the GIS/IT job market and industry.

GIS and Public Health *Guilford Press*

Authoritative 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.

Geospatial Concepts *Geospatial Institute*

The concepts and tutorials presented in this book are for readers with little to no experience using geographic information systems (GIS) software. This book is intended for use in an introductory college-level course with freshman students as the target audience. Each of the seven chapters represents approximately two weeks of work for a three-credit 16-week semester course. Each chapter starts with text related to fundamental concepts related to geospatial science and its sub-disciplines: Geodesy Remote Sensing Mobile Mapping Geographic Information Systems Cartography Each chapter also includes one or more tutorials designed to reinforce the concepts learned. These tutorials are suitable for undergraduate lab assignments. Tutorials may take between one to six hours to complete, depending on their complexity. When possible, the authors provide an estimated time to complete tutorials. Additional references, such as video content and external websites, may also be mentioned throughout the text. The second edition of this book includes new tutorials, updated material. Also, it has undergone a peer-review through Humboldt State University Press.

Fundamentals of GIS**Applications with ArcGIS** *Franz Pucha Cofrep*

Geographic information in decision making often goes unnoticed, but it is actually very present in our daily activities. Our eBook Fundamentals of GIS: Applications with ArcGIS shows the potential of Geographic Information Systems (GIS) for geoprocessing and mapping using ArcGIS. This book is designed

in a didactic and sequential way, as we advance in the development of the exercises we will acquire and improve our skills in the use of GIS tools, until we get to the publication of a well edited map. When the exercises in this book are completed and developed, the user will be able to fully understand the fundamentals of GIS, and the use of its main tools to generate maps. This is a book that will teach you from scratch and step by step the use of GIS for your professional projects.

A to Z GIS**An Illustrated Dictionary of Geographic Information Systems** *Esri Press*

Provides a collection of more than 1800 GIS terms and illustrations.

Uncertainty in Remote Sensing and GIS *John Wiley & Sons*

Remote sensing and geographical information science (GIS) have advanced considerably in recent years. However, the potential of remote sensing and GIS within the environmental sciences is limited by uncertainty, especially in connection with the data sets and methods used. In many studies, the issue of uncertainty has been incompletely addressed. The situation has arisen in part from a lack of appreciation of uncertainty and the problems it can cause as well as of the techniques that may be used to accommodate it. This book provides general overviews on uncertainty in remote sensing and GIS that illustrate the range of uncertainties that may occur, in addition to describing the means of measuring uncertainty and the impacts of uncertainty on

analyses and interpretations made. Uncertainty in Remote Sensing and GIS provides readers with comprehensive coverage of this largely undocumented subject: * Relevant to a broad variety of disciplines including geography, environmental science, electrical engineering and statistics * Covers range of material from base overviews to specific applications * Focuses on issues connected with uncertainty at various points along typical data analysis chains used in remote sensing and GIS Written by an international team of researchers drawn from a variety of disciplines, Uncertainty in Remote Sensing and GIS provides focussed discussions on topics of considerable importance to a broad research and user community. The book is invaluable reading for researchers, advanced students and practitioners who want to understand the nature of uncertainty in remote sensing and GIS, its limitations and methods of accommodating it.

Spatial Analysis in Field Primatology

Applying GIS at Varying Scales *Cambridge University Press*

A primatologist's guide to using geographic information systems (GIS); from mapping and field accuracy, to tracking travel routes and the impact of logging.

Fundamentals of Spatial Information Systems *Academic Press*

The study and application of spatial information systems have been developed primarily from the use of computers in the geosciences. These systems have the principle functions of capturing, storing, representing, manipulating, and displaying

data in 2-D and 3-D worlds. This book approaches its subject from the perspectives of informatics and geography, presenting methods of conceptual modeling developed in computer science that provide valuable aids for resolving spatial problems. This book is an essential textbook for both students and practitioners. It is indispensable for academic geographers, computer scientists, and the GIS professional. Key Features * Serves as the first comprehensive textbook on the field of Spatial Information Systems (also known as Geographic Information Systems) * Contains extensive illustrations * Presents numerous detailed examples

Getting to Know ArcGIS Pro *ESRI Press*

The authors teach new and existing GIS users how to get started solving problems by visualizing, querying, creating, editing, analyzing, and presenting geospatial data in both 2D and 3D environments using ArcGIS Pro. This book teaches the basic functions and capabilities of the system through practical project workflows and shows how to be productive with the components of the platform. The second edition has been updated to include information relevant for ArcGIS Pro 2.3.--adapted from publisher's description.

Geographic Information Analysis *John Wiley & Sons*

Clear, up-to-date coverage of methods for analyzing geographical information in a GIS context Geographic Information Analysis, Second Edition is fully updated to keep pace with the most recent developments of spatial analysis in a geographic information systems (GIS) environment. Still focusing on the

universal aspects of this science, this revised edition includes new coverage on geovisualization and mapping as well as recent developments using local statistics. Building on the fundamentals, this book explores such key concepts as spatial processes, point patterns, and autocorrelation in area data, as well as in continuous fields. Also addressed are methods for combining maps and performing computationally intensive analysis. New chapters tackle mapping, geovisualization, and local statistics, including the Moran Scatterplot and Geographically Weighted Regression (GWR). An appendix provides a primer on linear algebra using matrices. Complete with chapter objectives, summaries, "thought exercises," explanatory diagrams, and a chapter-by-chapter bibliography, *Geographic Information Analysis* is a practical book for students, as well as a valuable resource for researchers and professionals in the industry.

Getting to Know ArcGIS Desktop

Basics of ArcView, ArcEditor, and ArcInfo *ESRI, Inc.*

Explains how to use ArcView, then uses ArcView as a base for teaching ArcEditor and ArcInfo to allow readers to learn tasks including mapmaking, spatial analysis, and managing geographic data.

GIS For Dummies *John Wiley & Sons*

GIS (geographic information system) is a totally cool technology that has been called "geography on steroids." GIS is what lets you see the schools in your neighborhood or tells you where the

nearest McDonald's is. GIS For Dummies tells you all about mapping terminology and digital mapping, how to locate geographic features and analyze patterns such as streets and waterways, and how to generate travel directions, customer location lists, and much more with GIS. Whether you're in charge of creating GIS applications for your business or you simply love maps, you'll find GIS For Dummies is packed with information. For example, you can: Learn all the hardware and software necessary to collect, analyze, and manipulate GIS data Explore the difference between 2D and 3D maps, create a map, or manage multiple maps Analyze patterns that appear in maps and interpret the results Measure distance in absolute, comparative, and functional ways Recognize how spatial factors relate to geographic data Discover how GIS is used in business, the military, city planning, emergency services, land management, and more Find out how GIS can help you find out where flooding may occur Determine what your organization needs, do appropriate analyses, and actually plan and design a GIS system You'll find dozens of applications for GIS queries and analyses, and even learn to create animated GIS output. Whether your goal is to implement a GIS or just have fun, GIS For Dummies will get you there! Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

Modeling Our World

The ESRI Guide to Geodatabase Design *ESRI, Inc.*

Geographic data models are digital frameworks that describe the location and characteristics of things in the world around us. With

a geographic information system, we can use these models as lenses to see, interpret, and analyze the infinite complexity of our natural and man-made environments. With the geodatabase, a new geographic data model introduced with ArcInfo 8, you can extend significantly the level of detail and range of accuracy with which you can model geographic reality in a database environment.

Learning Geospatial Analysis with Python

Understand GIS fundamentals and perform remote sensing data analysis using Python 3.7, 3rd Edition *Packt Publishing Ltd*

Learn the core concepts of geospatial data analysis for building actionable and insightful GIS applications Key Features Create GIS solutions using the new features introduced in Python 3.7 Explore a range of GIS tools and libraries such as PostGIS, QGIS, and PROJ Learn to automate geospatial analysis workflows using Python and Jupyter Book Description Geospatial analysis is used in almost every domain you can think of, including defense, farming, and even medicine. With this systematic guide, you'll get started with geographic information system (GIS) and remote sensing analysis using the latest features in Python. This book will take you through GIS techniques, geodatabases, geospatial raster data, and much more using the latest built-in tools and libraries in Python 3.7. You'll learn everything you need to know about using software packages or APIs and generic algorithms that can be used for different situations. Furthermore, you'll learn how to apply simple Python GIS geospatial processes to a variety

of problems, and work with remote sensing data. By the end of the book, you'll be able to build a generic corporate system, which can be implemented in any organization to manage customer support requests and field support personnel. What you will learn Automate geospatial analysis workflows using Python Code the simplest possible GIS in just 60 lines of Python Create thematic maps with Python tools such as PyShp, OGR, and the Python Imaging Library Understand the different formats that geospatial data comes in Produce elevation contours using Python tools Create flood inundation models Apply geospatial analysis to real-time data tracking and storm chasing Who this book is for This book is for Python developers, researchers, or analysts who want to perform geospatial modeling and GIS analysis with Python. Basic knowledge of digital mapping and analysis using Python or other scripting languages will be helpful.

Practical GIS *Packt Publishing Ltd*

Learn the basics of Geographic Information Systems by solving real-world problems with powerful open source tools About This Book This easy-to-follow guide allows you to manage and analyze geographic data with ease using open source tools Publish your geographical data online Learn the basics of geoinformatics in a practical way by solving problems Who This Book Is For The book is for IT professionals who have little or no knowledge of GIS. It's also useful for those who are new to the GIS field who don't want to spend a lot of money buying licenses of commercial tools and training. What You Will Learn Collect GIS data for your needs Store the data in a PostGIS database Exploit the data using the power of the GIS queries Analyze the data with basic and more

advanced GIS tools Publish your data and share it with others Build a web map with your published data In Detail The most commonly used GIS tools automate tasks that were historically done manually—compiling new maps by overlaying one on top of the other or physically cutting maps into pieces representing specific study areas, changing their projection, and getting meaningful results from the various layers by applying mathematical functions and operations. This book is an easy-to-follow guide to use the most matured open source GIS tools for these tasks. We'll start by setting up the environment for the tools we use in the book. Then you will learn how to work with QGIS in order to generate useful spatial data. You will get to know the basics of queries, data management, and geoprocessing. After that, you will start to practice your knowledge on real-world examples. We will solve various types of geospatial analyses with various methods. We will start with basic GIS problems by imitating the work of an enthusiastic real estate agent, and continue with more advanced, but typical tasks by solving a decision problem. Finally, you will find out how to publish your data (and results) on the web. We will publish our data with QGIS Server and GeoServer, and create a basic web map with the API of the lightweight Leaflet web mapping library. Style and approach The book guides you step by step through each of the core concepts of the GIS toolkit, building an overall picture of its capabilities. This guide approaches the topic systematically, allowing you to build upon what you learned in previous chapters. By the end of this book, you'll have an understanding of the aspects of building a GIS system and will be able to take that knowledge with you to whatever project calls for it.

Essentials of Geographic Information Systems

Foundations of Geographic Information Science *CRC Press*

As the use of geographical information systems develops apace, a significant strand of research activity is being directed to the fundamental nature of geographic information. This volume contains a collection of essays and discussions on this theme. What is geographic information? What fundamental principles are associated with it? How can

Regional and Urban GIS

A Decision Support Approach *Guilford Press*

This unique text shows students and professionals how geographic information systems (GIS) can guide decision making about complex community and environmental problems. The authors' step-by-step introduction to GIS-based decision analysis methods and techniques covers important urban and regional issues (land, transportation, and water resource management) and decision processes (planning, improvement programming, and implementation). Real-world case studies demonstrate how GIS-based decision support works in a variety of contexts, with a special focus on community and regional sustainability management. Ideal for course use, the book reinforces key concepts with end-of-chapter review questions; illustrations include 18 color plates.

GIS Fundamentals : A First Text on Geographic Information Systems

Spatial Modeling in GIS and R for Earth and Environmental Sciences *Elsevier*

Spatial Modeling in GIS and R for Earth and Environmental Sciences offers an integrated approach to spatial modelling using both GIS and R. Given the importance of Geographical Information Systems and geostatistics across a variety of applications in Earth and Environmental Science, a clear link between GIS and open source software is essential for the study of spatial objects or phenomena that occur in the real world and facilitate problem-solving. Organized into clear sections on applications and using case studies, the book helps researchers to more quickly understand GIS data and formulate more complex conclusions. The book is the first reference to provide methods and applications for combining the use of R and GIS in modeling spatial processes. It is an essential tool for students and researchers in earth and environmental science, especially those looking to better utilize GIS and spatial modeling. Offers a clear, interdisciplinary guide to serve researchers in a variety of fields, including hazards, land surveying, remote sensing, cartography, geophysics, geology, natural resources, environment and geography Provides an overview, methods and case studies for each application Expresses concepts and methods at an appropriate level for both students and new users to learn by example

Introduction to Geographic Information Systems

Fundamentals of Probability: A First Course *Springer Science & Business Media*

Probability theory is one branch of mathematics that is simultaneously deep and immediately applicable in diverse areas of human endeavor. It is as fundamental as calculus. Calculus explains the external world, and probability theory helps predict a lot of it. In addition, problems in probability theory have an innate appeal, and the answers are often structured and strikingly beautiful. A solid background in probability theory and probability models will become increasingly more useful in the twenty-first century, as difficult new problems emerge, that will require more sophisticated models and analysis. This is a text on the fundamentals of the theory of probability at an undergraduate or first-year graduate level for students in science, engineering, and economics. The only mathematical background required is knowledge of univariate and multivariate calculus and basic linear algebra. The book covers all of the standard topics in basic probability, such as combinatorial probability, discrete and continuous distributions, moment generating functions, fundamental probability inequalities, the central limit theorem, and joint and conditional distributions of discrete and continuous random variables. But it also has some unique features and a forward-looking feel.

Geoinformation

Remote Sensing, Photogrammetry and Geographic Information Systems *CRC Press*

Surveying and mapping has recently undergone a transition: from discipline-oriented technologies, such as geodesy, surveying, photogrammetry and cartography, to the methodology-oriented

integrated discipline of geoinformatics based on GPS positioning, remote sensing, digital photography and GIS for data manipulation and data output. This book presents the required basic background for remote sensing, digital photogrammetry and GIS in the new geoinformatics concept in which the different methodologies must be combined. For remote sensing, the basic fundamentals are the properties of electromagnetic radiation and their interaction with matter. This radiation is received by sensors and platforms in analogue or digital form, and is subject to image processing. In photogrammetry, the stereo-concept is used for the location of information in 3D. With the advent of high-resolution satellite systems in stereo, the theory of analytical photogrammetry restituting 2-D image information into 3D is of increasing importance, merging the remote sensing approach with that of photogrammetry. The result of the restitution is a direct input into geographical information systems in vector or in raster form. The fundamentals of these are described in detail, with an emphasis on global, regional and local applications. For data integration, a short introduction into the GPS Satellite positioning system is added. This textbook will appeal to a wide range of readers, from advanced undergraduates to all professionals in the growing field of geoinformation.

Introductory Geographic Information Systems *Prentice Hall*
Geospatial technologies in general – and Geographic Information Systems (GIS) in particular – are becoming increasingly important in our society. GIS technology is used to identify the optimal routes for emergency vehicles, to determine the best locations for various businesses, schools, and facilities, to monitor the

growth and expansion of urban areas as a way to manage natural resources, and much more. *Principles of Geographic Information Systems* by John Jensen and Ryan Jensen is an ideal introduction for those who know very little about geographic information systems and spatial analysis. Relatively complex GIS principles are introduced in basic terms, often using graphics to communicate principles rather than complex mathematical equations. Content is not geared toward any single commercial GIS software program, and the book's timely, practical examples and extensive visual format appeal to today's students. This text can be used at the undergraduate or graduate level in one or two semester courses in Introductory and Intermediate GIS, yet can also be useful for professionals looking to increase their knowledge in this subject area. Note: If you are purchasing the standalone text or electronic version, mygeoscienceplace does not come automatically packaged with the text. To purchase mygeoscienceplace, please visit www.mygeoscienceplace.com.

GIS for Emergency Preparedness and Health Risk Reduction *Springer Science & Business Media*

Geographical Information Systems (GIS) have developed rapidly in recent years and now provide powerful tools for the capture, manipulation, integration, interrogation, modelling, analysis and visualisation of data - tools that are already used for policy support in a wide range of areas at almost all geographic and administrative levels. This holds especially for emergency preparedness and health risk reduction, which are all essentially spatial problems. To date, however, many initiatives have remained disconnected and uncoordinated, leading to less

powerful, less compatible and less widely implemented systems than might otherwise have been the case. The important matters discussed here include the probabilistic nature of most environmental hazards and the semi-random factors that influence interactions between these and human exposures; the effects of temporal and spatial scales on hazard assessment and imputed risk; the effects of measurement error in risk estimation and the stratification of risks and their impacts according to socioeconomic characteristics; and the quantification of socioeconomic differences in vulnerability and susceptibility to environmental hazards.

Fundamentals of Spatial Data Quality *John Wiley & Sons*

This book explains the concept of spatial data quality, a key theory for minimizing the risks of data misuse in a specific decision-making context. Drawing together chapters written by authors who are specialists in their particular field, it provides both the data producer and the data user perspectives on how to evaluate the quality of vector or raster data which are both produced and used. It also covers the key concepts in this field, such as: how to describe the quality of vector or raster data; how to enhance this quality; how to evaluate and document it, using methods such as metadata; how to communicate it to users; and how to relate it with the decision-making process. Also included is a Foreword written by Professor Michael F. Goodchild.

Getting to Know ArcGIS for Desktop *Esri Press*

Getting to Know ArcGIS® for Desktop is a workbook that introduces the principles of GIS via hands-on exercises. Readers

are shown how to use ArcGIS for Desktop software tools to display and present maps and data, and then query and analyze the data. The third edition has been reorganized and includes new topics such as exploring online resources and raster data and contains new exercises, data, and learning tools. Known for its broad scope, clarity, and reliability, Getting to Know ArcGIS for Desktop is equally well-suited for classroom use, independent study, and as a reference. A data DVD for working through the exercises is included with the book, and access to a 180-day trial of ArcGIS 10.1 for Desktop is provided.

Imagery and GIS

Best Practices for Extracting Information from Imagery

ESRI Press

The first in-depth book about using imagery with ArcGIS

GIS Tutorial for ArcGIS Desktop 10. 8 *Esri Press*

From working with map layers to analyzing spatial data, GIS Tutorial for ArcGIS Desktop 10.8 helps users explore GIS concepts, apply ArcGIS software, and instill GIS skills.

The ArcGIS Imagery Book

New View, New Vision *ESRI Press*

A conceptual introduction and practical primer to the application of imagery and remote sensing data in GIS (geographic information systems).

GIS Tutorial One *ESRI Press*

GIS Tutorial 1 incorporates proven teaching methods into

introductory exercises that help readers learn ArcGIS(R) for Desktop software skills.