Fundamentals Of Geographic Information Systems 2nd Edition

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A to Z GIS Tasha Wade 2006 Provides a collection of more than 1800 GIS terms and illustrations.

Getting Started with Geographic Information Systems Keith C. Clarke 2003 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.

Uncertainty in Geographical Information Jingxiong Zhang 2002-03-29 As Geographic Information Systems (GIS) have developed and their applications have been extended, the issue of uncertainty has become increasingly recognized. It is highlighted by the need to demystify the inherently complex geographical world to facilitate computerization in GIS, by the inaccuracies that emerge from man-machine interactions in dat

Thinking about GIS Roger F. Tomlinson 2007 Describes how to implement a successful geographic information system.

Essentials of Geographic Information Systems Michael Edward Shin 2018 Introduction to Geographic

Information Systems Chang 2008
Fundamentals of Physical Geography
James Petersen 2011-01-10 The lessons
contained in the Lab Manual are
designed to build and heighten
understanding of the text chapters.
Students can use these lessons to see
how textbook content can be applied
to the everyday problems in the world
around them. Lab Manual lessons help
build valuable skills such as map
reading, map and graph
interpretation, three-dimensional
thinking, problem solving, and
predictive modeling.
Geospatial Concepts Nicolas Malloy
2021-08-06 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.

The ArcGIS Book Christian Harder 2017 This is a hands-on book about ArcGIS that you work with as much as read. By the end, using Learn ArcGIS lessons, you'll be able to say you made a story map, conducted geographic analysis, edited geographic data, worked in a 3D web scene, built a 3D model of Venice, and more.

GIS Basics Stephen Wise 2003-09-02 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 Brian Tomaszewski 2020-10-27 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.
Foundations of Geographic Information

Science Matt Duckham 2003-01-30 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
Principles of Geographic Information Systems Rolf A. de By 2004
Geographic Information Analysis David O'Sullivan 2014-07-30 Clear, up-to-date coverage of methods for analyzing geographicalinformation in a GIS context Geographic Information Analysis, Second Edition is fullyupdated to keep pace with the most recent developments of spatialanalysis in a geographic

information systems (GIS) environment.Still focusing on the universal aspects of this science, thisrevised edition includes new coverage on geovisualization andmapping as well as recent developments using local statistics. Building on the fundamentals, this book explores such keyconcepts as spatial processes, point patterns, and autocorrelationin area data, as well as in continuous fields. Also addressed aremethods for combining maps and performing computationally intensiveanalysis. New chapters tackle mapping, geovisualization, and localstatistics, including the Moran Scatterplot and GeographicallyWeighted Regression (GWR). An appendix provides a primer on linearalgebra using matrices. Complete with chapter objectives, summaries, "thoughtexercises," explanatory diagrams, and a chapter-by-chapterbibliography, Geographic Information Analysis is a practicalbook for students, as well as a valuable resource for researchersand professionals in the industry.

Time-Integrative Geographic Information Systems Thomas Ott 2012-12-06 The book deals with the integration of temporal information in Geographic Information Systems. The main purpose of an historical or time-integrative GIS is to reproduce spatio- temporal processes or sequents of events in the real world in the form of a model. The model thus making them accessible for spatial query, analysis and visualization. This volume reflects both theoretical thoughts on the

interrelations of space and time, as well as practical examples taken from various fields of application (e.g. business data warehousing, demographics, history and spatial analysis).

Geographic Information Systems (GIS) Dayna Nielson 2014-01-01 Sustainability has been increasingly embraced as an overarching policy goal, and communities have been called to be active participants on the path towards attaining a balance between fundamental human needs and ecological resilience. Community-based organizations (CBOs) can benefit from using GIS in building community assets and developing well-conceived sustainability initiatives, but GIS has not yet been widely used for those purposes in CBOs. This book illustrates how geographic information (such as maps) can be useful in community development drawing from service-learning GIS projects, and argue that economic theories of sustainability and spatial thinking can be of help in building sustainable community. It also discusses the application of vehicle routing problems for sustainable waste collection; spatio-temporal visualization and analysis techniques in GIS; GIS applications in modern crop protection; role of geographic information system for water quality evaluation; and the use of remote sensing and GIS for groundwater potential mapping in crystalline basement rocks.

Principles of Geographical Information Systems Peter A. Burrough 2015 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 arange of practical problems.

Geoinformation Gottfried Konecny 2002-10-03 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.

Geographic Information Systems for Transportation Harvey J. Miller 2001 GIS data and tools are revolutionizing transportation research and decision making, allowing transportation analysts and professionals to understand and solve complex transportation problems that were previously impossible. Here, Miller and Shaw present a comprehensive discussion of fundamental geographic science and the applications of these principles using GIS and other software tools. By providing thorough and accessible discussions of transportation analysis within a GIS environment, this volume fills a critical niche in GIS-T and GIS literature.

Fundamentals of Geographic Information Systems Michael N. DeMers 2008-04-04 Locate your place in the exciting field of GIS In existence since 1962, Geographical Information Systems (GIS) are really coming into

their own today. And not just in your car's GPS system or your cell phone's tracking capabilities. GIS is finding applications throughout science, government, business, and industry, from regional and community planning, architecture, and transportation to public health, crime mapping, and national defense. Michael DeMers's Fundamentals of Geographic Information, Fourth Edition brings an already essential text up to date, capturing the significant developments in the field and responding to the needs of a diverse set of readers, from geographers to students in a host of other fields. If you are a non-geographer or new to GIS, get a quick introduction to the "lay of the land" of GIS through the new "Spatial Learner's Permit" section. Then join in the excitement of discovery with GIS databases as you absorb the such concepts and skills as digital geographic data and maps, GIS data models, spatial analysis, measurement and classification, cartographic modeling, and GIS design. Responding to both the needs and technical skills of today's students, this Fourth Edition: * Makes concepts accessible to students from a wide range of backgrounds * Offers more practical and relevant coverage of GIS design and implementation * Reflects the latest changes in GIS applications * Examines in greater depth the underlying computer science behind GIS * Uncovers the most recent developments on GIS research * Expands coverage of the increasingly robust literature on cartographic visualization * Includes Web-based

labs and links to current and updated dataset resources Taking an open-ended, hands-on approach that gets you to ask your own questions about the underlying concepts, the Fourth Edition helps you not only master the basics but acquire the active problem-solving skills that are a key component of success in the GIS industry.

Introductory Geographic Information Systems John R. Jensen 2012-02 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.
Remote Sensing and Geographic Information System A. M. Chandra 2015-07-28
An Introduction to Geographical Information Systems D. Ian Heywood 2011 The new edition has been substantially revised and updated to include coverage of the latest advances in GIS technology and applications (particularly web-based and mobile applications) and to provide pointers to recent research and publications. --

Fundamentals of Satellite Remote Sensing Emilio Chuvieco 2020-01-22 Fundamentals of Satellite Remote Sensing: An Environmental Approach, Third Edition, is a definitive guide to remote sensing systems that focuses on satellite-based remote sensing tools and methods for space-based Earth observation (EO). It presents the advantages of using remote sensing data for studying and monitoring the planet, and emphasizes concepts that make the best use of satellite data. The book begins with an introduction to the basic processes that ensure the acquisition of space-borne imagery, and provides an overview of the main satellite observation systems. It then describes visual and digital image analysis, highlights various interpretation techniques, and

outlines their applications to science and management. The latter part of the book covers the integration of remote sensing with Geographic Information System (GIS) for environmental analysis. This latest edition has been written to reflect a global audience and covers the most recent advances incorporated since the publication of the previous book, relating to the acquisition and interpretation of remotely sensed data. New in the Third Edition: Includes additional illustrations in full color. Uses sample images acquired from different ecosystems at different spatial resolutions to illustrate different interpretation techniques. Includes updated EO missions, such as the third generations of geostationary meteorological satellites, the new polar orbiting platforms (Suomi), the ESA Sentinels program, and high-resolution commercial systems. Includes extended coverage of radar and LIDAR processing methods. Includes all new information on near-ground missions, including unmanned aerial vehicles (UAVs). Covers new ground sensors, as well as machine-learning approaches to classification. Adds more focus on land surface characterization, time series, change detection, and ecosystem processes. Extends the interactions of EO data and GIS that cover different environmental problems, with particular relevance to global observation. Fundamentals of Satellite Remote Sensing: An Environmental Approach, Third Edition, details the tools that provide global, recurrent, and

comprehensive views of the processes affecting the Earth. As one of CRC's Essential titles, this book and stands out as one of the best in its field and is a must-have for researchers, academics, students, and professionals involved in the field of environmental science, as well as for libraries developing collections on the forefront of this industry.
A Primer of GIS, First Edition Francis Harvey 2008-02-13 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.
Geographical Information Systems Paul A. Longley 2005-05-03 CD-ROM contains full text in searchable PDF format and color image gallery.
Wie Fundamentals of Geographic Information Systems (Gis), Second Edition, International Edition Demers 2005-05 The second edition of this well-received text on principles of geographic information systems (GIS) continues the author's style of "straight talk" in its presentation. The writing is accessible and easy to follow. Unlike most other texts, this book covers GIS design and modeling,

reflecting the author's belief that modeling and analysis are at the heart of GIS. This enables students to understand how to use a GIS and what it does.

Concepts and Techniques of Geographic Information Systems Chor Pang Lo 2007 Fully updated to reflect advances in GIS concepts and techniques, this guide approaches the subject from the broader context of information technology. Gives complete, up-to-date coverage to the concepts and techniques pertaining to every stage of the systems development life cycle of GIS, as well as its applications to various areas of spatial problem solving and decision making. For GIS specialists, GIS technologists, GIS sales directors, urban planners, natural resource managers, land surveyors, geomatics engineers, and foresters who want a complete understanding of GIS and how GIS applies to their fields of interest.

Geographic Information Systems (GIS) for Disaster Management Brian Tomaszewski 2020-10-27 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. Fundamentals of Geographic Information Systems Michael N. DeMers

2000 The second edition of this well-received text on principles of geographic information systems (GIS) continues the author's style of "straight talk" in its presentation. The writing is accessible and easy to follow. Unlike most other texts, this book covers GIS design and modeling, reflecting the author's belief that modeling and analysis are at the heart of GIS. This enables students to understand how to use a GIS and what it does.

The GIS 20 Gina Clemmer 2010 The GIS 20 is a no-nonsense workbook that demonstrates how to perform twenty essential GIS skills as indicated by 500 GIS practitioners. Written for professionals with no time for classroom training, this book can be treated as a weekly self-assignment or an as-needed reference. Each chapter offers a handy checklist of basic functions and steps covered in the text, as well as executive level summaries of how the functions are commonly applied for different types of analysis. If you are a GIS beginner, The GIS 20: Essential Skills is your best friend.

GIS Fundamentals Stephen Wise 2013-09-25 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.
Manual of Geospatial Science and Technology John D. Bossler 2001-11-22 Professionals in local and national government and in the private sector frequently need to draw on Geographical Information Systems (GIS), Remote Sensing (RS) and Global Positioning Systems (GPS), often in an integrated manner. This manual shows a hands-on operator how to work across the range of geospatial science and technology, whether as a user or as a contractor of services employing these technologies, and without either specialist education or substantial experience. The manual covers the fundamentals of each of these topical areas, providing the requisite mathematics, computer science and physics necessary to understand how the technologies work, assuming some elementary background in calculus and physics. It also shows how the technologies can be used together and focuses on their commonalities. A number of applications such as mapping and environmental modeling are presented, and a website accompanies the book.
GIS Michael F. Worboys 2004-05-11 GIS: A Computing Perspective, Second Edition, provides a full, up-to-date overview of GIS, both Geographic Information Systems and the study of Geographic Information Science. Analyzing the subject from a computing perspective, the second edition explores conceptual and formal models needed to understand spatial information, and examines the

representations and data structures needed to support adequate system performance. This volume also covers the special-purpose interfaces and architectures required to interact with and share spatial information, and explains the importance of uncertainty and time. The material on GIS architectures and interfaces as well as spatiotemporal information systems is almost entirely new. The second edition contains substantial new information, and has been completely reformatted to improve accessibility. Changes include: A new chapter on spatial uncertainty Complete revisions of the bibliography, index, and supporting diagrams Supplemental material is offset at the top of the page, as are references and links for further study Definitions of new terms are in the margins of pages where they appear, with corresponding entries in the index

GIS Fundamentals Paul Bolstad 2005
Geographic Data Mining and Knowledge Discovery Harvey J. Miller 2009-05-27 The Definitive Volume on Cutting-Edge Exploratory Analysis of Massive Spatial and Spatiotemporal DatabasesSince the publication of the first edition of Geographic Data Mining and Knowledge Discovery, new techniques for geographic data warehousing (GDW), spatial data mining, and geovisualization (GVis) have been developed. In addition, there has bee
Geographic Information Systems in Oceanography and Fisheries Vasilis D. Valavanis 2002-05-23 Over the last two decades there has been increasing recognition that problems in

oceanography and fisheries sciences and related marine areas are nearly all manifest in the spatio-temporal domain. Geographical Information Systems (GIS), the natural framework for spatial data handling, are being recognized as powerful tools with useful applications
Introduction to Geographic Information Systems Kang-Tsung Chang 2002
GIS and Public Health Ellen K. Cromley 2012-01-01 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.
Introducing Geographic Information Systems with ArcGIS Michael D.

Kennedy 2013-03-20 An integrated approach that combines essential GIS background with a practical workbook on applying the principles in ArcGIS 10.0 and 10.1 Introducing Geographic Information Systems with ArcGISintegrates a broad introduction to GIS with a software-specific workbook for Esri's ArcGIS. Where most courses make do using two separate texts, one covering GIS and another the software, this book enables students and instructors to use a single text with an integrated approach covering both in one volume with a common vocabulary and instructional style. This revised edition focuses on the latest software updates—ArcGIS 10.0 and 10.1. In addition to its already successful coverage, the book allows students to experience publishing maps on the Internet through new exercises, and introduces the idea of programming in the language Esri has chosen for applications (i.e., Python). A DVD is packaged with the book, as in prior editions, containing data for working out all of the exercises. This complete, user-friendly coursebook: Is updated for the latest ArcGIS releases—ArcGIS 10.0 and 10.1 Introduces the central concepts of GIS and topics needed to understand spatial information analysis Provides a considerable ability to operate important tools in ArcGIS Demonstrates new capabilities of ArcGIS 10.0 and 10.1 Provides a basis for the advanced study of GIS and the study of the newly emerging field of GIScience Introducing Geographic Information Systems with ArcGIS, Third Edition is the ideal

guide for undergraduate students taking courses such as Introduction to GIS, Fundamentals of GIS, and Introduction to ArcGIS Desktop. It is also an important guide for professionals looking to update their skills for ArcGIS 10.0 and 10.1.