The Gis Guide For Elected Officials

The GIS Guide to Public Domain Data The ESRI Guide to GIS Analysis: Geographic patterns & relationships *GIS Cartography* Learning GIS Using Open Source Software **GIS Cartography Designing Better Maps The GIS Guide for Elected Officials** Instructional Guide for the ArcGIS Book **Designing Better Maps** Making Maps, Third Edition **The Esri Guide to GIS Analysis, Volume 2 The GIS Guide for Local Government Officials Lining Up Data in ArcGIS** Learning ArcGIS Pro 2 **The Esri Guide to GIS Analysis Getting Started with GIS** *The ArcGIS Book* **Instructional Guide for the ArcGIS Imagery Book** *Map Librarianship* **QGIS Quick Start Guide** *Introducing Geographic Information Systems with ArcGIS* **Mapping by Design Making Maps, Third Edition The GIS Management Handbook GIS Guide to Good Practice** GIS For Dummies *Making Maps, Third Edition* **The GIS 20** A Place in History **Strategic GIS Planning and Management in Local Government Integrated Geospatial Technologies** *Exploring Spatial Analysis in Geographic Information Systems* **ArcView GIS/Avenue Developer's Guide GIS for Teachers** *The ESRI Guide to GIS Analysis* **Geospatial Analysis** *Geocomputation with R* **The ArcGIS Imagery Book** Careers in GIS **GIS Tutorial**

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Making Maps, Third Edition Dec 12 2020 Lauded for its accessibility and beautiful design, this text has given thousands of students and professionals the tools to create effective, compelling maps. Using a wealth of illustrations--with 74 in full color--to elucidate each concisely presented point, the revised and updated third edition continues to emphasize how design choices relate to the reasons for making a map and its intended purpose. All components of map making are covered: titles, labels, legends, visual hierarchy, font selection, how to turn phenomena into visual data, data organization, symbolization, and more. Innovative pedagogical features include a short graphic novella, good design/poor design map examples, end-of-chapter suggestions for further reading, and an annotated map examplar that runs throughout the book. New to This Edition *Expanded coverage of using mobile digital devices to collect data for maps, including discussions of location services and locational privacy. *New and revised topics: how to do sketch maps, how map categories and symbols have changed over time, designing maps on desktop computers and mobile devices, human perception and color, and more. *Separate, expanded chapter on map symbol abstraction. *Additional case studies of compelling phenomena such as children's traffic fatalities based on race, the spread of tropical diseases, and the 2012 presidential election. *Many additional color illustrations.

Instructional Guide for the ArcGIS Book Mar 27 2022 Using real data and real-world problems and events, the lessons in this guide provide both teachers and students with a fresh approach to GIS, one that allows learners to take their enthusiasm and run with it.

GIS Cartography Jun 29 2022 This enhanced eBook version is equipped with videos and pop-up explanations to extend the reader's experience on essential cartographic design topics and to make the reading experience more enjoyable and more effective. The 16 videos placed throughout the text will demonstrate some highly complex map design issues to help understand and visualize the task at hand and show how to achieve the best results following the author's instructions. Pop-up explanations of selected concepts are also placed throughout the text to help readers refresh their knowledge and better understand the map design process. All chapters are richly illustrated with color and include practical exercises and questions.

The ArcGIS Imagery Book Aug 27 2019 A conceptual introduction and practical primer to the application of imagery and remote sensing data in GIS (geographic information systems).

Making Maps, Third Edition Jan 25 2022 "Using a wealth of illustrations--with 74 in full color--to elucidate each concisely presented point, the revised and updated third edition continues to emphasize how design choices relate to the reasons for making a map and its intended purpose. All components of map making are covered: titles, labels, legends, visual hierarchy, font selection, how to turn phenomena into visual data, data organization, symbolization, and more."--Back cover.

Learning ArcGIS Pro 2 Sep 20 2021 Create 2D maps and 3D scenes, analyze GIS data, and share your results with the GIS community using the latest ArcGIS Pro 2 features Key Features Get up to speed with the new ribbon-based user interface, projects, models, and common workflows in ArcGIS Pro 2 Learn how to visualize, maintain, and analyze GIS data Automate analysis and processes with ModelBuilder and Python scripts Book Description Armed with powerful tools to visualize, maintain, and analyze data, ArcGIS Pro 2 is Esri's newest desktop geographic information system (GIS) application that uses the modern ribbon interface and a 64-bit processor to make using GIS faster and more efficient. This second edition of Learning ArcGIS Pro will show you how you can use this powerful desktop GIS application to create maps, perform spatial analysis, and maintain data. The book begins by showing you how to install ArcGIS and listing the software and hardware prerequisites. You'll then understand the concept of named user licensing and learn how to navigate the new ribbon interface to leverage the power of ArcGIS Pro for managing geospatial data. Once you've got to grips with the new interface, you'll build your first GIS project and understand how to use the different project resources available. The book shows you how to create 2D and 3D maps by adding layers and setting and managing the symbology and labeling. You'll also discover how to use the analysis tool to visualize geospatial data. In later chapters, you'll be introduced to Arcade, the new lightweight expression language for ArcGIS, and then advance to creating complex labels using Arcade expressions. Finally, you'll use Python scripts to automate and standardize tasks and models in ArcGIS Pro. By the end of this ArcGIS Pro book, you'll have developed the core skills needed for using ArcGIS Pro 2.x competently. What you will learn Navigate the user interface to create maps, perform analysis, and manage data Display data based on discrete attribute values or range of values Label features on a GIS map based on one or more attributes using Arcade Create map books using the map series functionality Share ArcGIS Pro maps, projects, and data with other GIS community members Explore the most used geoprocessing tools for performing spatial analysis Create Tasks based on common workflows to standardize processes Automate processes using ModelBuilder and Python scripts Who this book is for If you want to learn ArcGIS Pro to create maps and, edit and analyze geospatial data, this ArcGIS book is for you. No knowledge of GIS fundamentals or experience with any GIS tool or ArcGIS software suite is required. Basic Windows skills, such as navigating and file management, are all you need.

Exploring Spatial Analysis in Geographic Information Systems Mar 03 2020 For students and professionals who wish to quickly become proficient with spacial analytical techniques employed in geographic information systems.

GIS For Dummies Sep 08 2020 An easy-to-understand reference for navigating through geographic information systems (GIS) 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 discover where flooding may occur Determine what your organization needs, do appropriate analyses, and 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. Additionally, you can learn about sources of GIS data and GIS software vendors (and even what questions to ask potential vendors). Whether your goal is to implement a geographic information system or just have fun, GIS For Dummies will get you there!

Lining Up Data in ArcGIS Oct 22 2021 Easy-to-navigate troubleshooting reference for any GIS user with the common problem of data misalignment. Updated for ArcGIS Desktop 10.6.

The ArcGIS Book Jun 17 2021 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 Cartography Sep 01 2022 In the five years since the publication of the first edition of A Guide to Effective Map Design, cartography and software have become further intertwined. However, the initial motivation for publishing the first edition is still valid: many GISers enter the field without so much as one hour of design instruction in their formal education. Yet they are then tasked with creating one the most effective, easily recognized communication tools: a map. See What's New in the Second Edition Projection theory Hexagonal binning Big Data point density maps Scale dependent map design 3D building modeling Digital cartography and its best practices Updated graphics and references Study questions and lab exercises at the end of each chapter In this second edition of a bestseller, author Gretchen Peterson takes a "don't let the technology get in the way" approach to the presentation, focusing on the elements of good design, what makes a good map, and how to get there, rather than specific software tools. She provides a reference that you can thumb through time and again as you create your maps. Copiously illustrated, the second edition explores novel concepts that kick-start your pursuit of map-making excellence. The book doesn't just teach you how to design and create maps, it teaches you how to design and create better maps.

Careers in GIS Jul 27 2019 Book Description: Careers in GIS: an Unfiltered Guide to Finding a GIS Job is a job hunting strategy guide for people entering or already in the geographic information systems (GIS) industry. Careers in

GIS: an Unfiltered Guide to Finding a GIS Job tackles issues that are most important to job hunters in a very blunt manner. It informs the reader specifically where to go, what to do, and the skills to acquire in order to increase their likelihood of finding a GIS-related occupation. Education, salary, employers, networking, and motivation are only a few of the issues touched upon in this text.

A Place in History Jun 05 2020 Offers a guide for historians who want to use Geographical Information Systems (GIS) to perform historical research.

Geospatial Analysis Oct 29 2019 Addresses a range of analytical techniques that are provided within modern Geographic Information Systems and related geospatial software products. This guide covers: the principal concepts of geospatial analysis; core components of geospatial analysis; and, surface analysis, including surface form analysis, gridding and interpolation methods.

Designing Better Maps May 29 2022 Designing Better Maps: A Guide for GIS Users, second edition, breaks down the myriad decisions involved in creating maps that communicate effectively. The second edition includes updated material and a new chapter on map publishing.

ArcView GIS/Avenue Developer's Guide Jan 31 2020 For students and professionals who wish to quickly become proficient with spacial analytical techniques employed in geographic information systems.

The Esri Guide to GIS Analysis Aug 20 2021 The Esri Guide to GIS Analysis, Volume 1, second edition, lays the foundation for all GIS users to understand and engage in spatial analysis to find patterns, relationships, and trends that lead to better decision-making.

The GIS Management Handbook Nov 10 2020 Comprehensive guide, for practitioners and students on concepts, practices, tools for management of geographic information system (GIS) programs and projects. English

Integrated Geospatial Technologies Apr 03 2020 Discusses the underlying theory of GPS and GIS without becoming overly technical. * Includes case studies presenting international experience and real-world applications. * Provides discussions of instrumentation and guidelines for selecting the right device for the job.

The GIS Guide for Local Government Officials Nov 22 2021 "In The GIS Guide for Local Government Officials, municipal GIS experts suggest practical approaches for incorporating this powerful mapping technology into a city or county, no matter what size. Case studies drawn from throughout North American illustrate how officials have successfully applied GIS to their specific needs, from monitoring storm drains in Hawaii to fixing potholes in Canada."--BOOK JACKET.

Learning GIS Using Open Source Software Jul 31 2022 This book introduces the usage, functionality, and application of data in geographic information systems (GIS) for geo-spatial analysis. It offers knowledge on GIS tools and techniques and explains how they can be applied in real-world project to architects and planners in the Indian and the Greater South Asian context using open-source software. The volume explains concepts on planning and architectural tasks, their data,

methods and requirements followed, and includes GIS-related exercises on the same tasks. It takes the reader through the concepts of geo-spatial analysis and its referencing system while quoting examples from India. Further, the content of the book will help the planners involved in preparing GIS-based master planning for cities under the Atal Mission for Rejuvenation and Urban Transformation (AMRUT) scheme (see Glossary for details). A practical guidebook providing a step-by-step guide to learn open source GIS, this book will be useful for students, scholars and professionals from the field of architecture and planning, geography and other spatial sciences, instructors of GIS courses on planning and architecture, urban and regional planners, transport planners, urban design, landscape architects, environmental planners, departments of town and country planning, and development authorities. It will also be useful for anyone interested in the geospatial analysis.

Getting Started with GIS Jul 19 2021 GIS technology has evolved into a multidisciplinary research and social tool used by everyone. Eva Dodsworth introduces spatial literacy, online mapping programs, desktop GIS, software programs and geospatial data. It includes several hands-on activities that show you how to bring GIS to your library.

Mapping by Design Jan 13 2021 Mapping by Design: A Guide to ArcGIS Maps for Adobe Creative Cloud serves as a practical guide for all mapmakers who want to create compelling maps using Adobe(R) Illustrator(R).

Designing Better Maps Feb 23 2022 A guide to map design covers such topics as resolution and viewing distance, fonts and symbols, colors, scale bars, and export options.

Making Maps, Third Edition Aug 08 2020 Lauded for its accessibility and beautiful design, this text has given thousands of students and professionals the tools to create effective, compelling maps. Using a wealth of illustrations--with 74 in full color--to elucidate each concisely presented point, the revised and updated third edition continues to emphasize how design choices relate to the reasons for making a map and its intended purpose. All components of map making are covered: titles, labels, legends, visual hierarchy, font selection, how to turn phenomena into visual data, data organization, symbolization, and more. Innovative pedagogical features include a short graphic novella, good design/poor design map examples, end-of-chapter suggestions for further reading, and an annotated map examplar that runs throughout the book. New to This Edition *Expanded coverage of using mobile digital devices to collect data for maps, including discussions of location services and locational privacy. *New and revised topics: how to do sketch maps, how map categories and symbols have changed over time, designing maps on desktop computers and mobile devices, human perception and color, and more. *Separate, expanded chapter on map symbol abstraction. *Additional case studies of compelling phenomena such as children's traffic fatalities based on race, the spread of tropical diseases, and the 2012 presidential election. *Many additional color illustrations.

GIS for Teachers Jan 01 2020

The GIS Guide to Public Domain Data Nov 03 2022 Readers will understand how to find,

evaluate, and analyze data to solve location-based problems. This guide covers practical issues such as copyrights, cloud computing, online data portals, volunteered geographic information, and international data with supplementary exercises.

The ESRI Guide to GIS Analysis: Geographic patterns & relationships Oct 02 2022 Backed by the collective knowledge and expertise of the worlds leading Geographic Information Systems company, this volume presents the concepts and methods unleashing the full analytic power of GIS.

Strategic GIS Planning and Management in Local Government May 05 2020 This "how-to" book on planning and managing GIS within local government describes and details the key components of a successful enterprise, sustainable and enduring GIS. It describes the strategic planning process an organization must undertake prior to GIS implementation. The heart of the book is the formula for success that offers a systematic methodology for examining and benchmarking a GIS initiative and the practical and repeatable strategy for success. There are many obstacles to successful GIS implementation, and unfortunately, the local government landscape is riddled with false starts, poorly planned implementations, and glorified mapping systems. This book documents the reason for failure and possible remedies to overcome the challenges to implementation. It discusses pathways to change, ways of improving organizational effectiveness and efficiency, and lays out the organizational approaches, management processes, and leadership actions that are required for GIS to become an indispensable part of an organization. This book is about aiming high, so you can consistently hit your mark by formulating goals and objectives that will tremendously influence the success of a GIS initiative. It details the factors crucial for building an enterprise GIS vision statement that includes governance, data and databases, procedures and workflow, GIS software, GIS training and education, and infrastructure, and how to develop performance measures related to the stated objectives of an organization. The book combines theory with real-world experience to offer guidance on the process of managing GIS implementation. Through key components, this book introduces a new way to think about GIS technology.?

The GIS Guide for Elected Officials Apr 27 2022 "The GIS Guide for Elected Officials is a valuable resource for government officials who want to better understand how to use geographic information systems (GIS) to answer location-based questions. The use cases in GIS Guide for Elected Officials show the wide range of problems GIS can help solve, including determining potential markets for a start-up business, responding to the needs of a community during a disaster, and identifying urban food deserts. Designed to enable governments to learn from the experience of others, this volume also includes a review of what it takes to build and maintain a strong GIS program in light of rapidly changing technology and shrinking government budgets"--
The ESRI Guide to GIS Analysis Nov 30 2019
GIS Guide to Good Practice Oct 10 2020 "This document is designed specifically to provide guidance for individuals and

organisations involved in the creation, maintenance, use and long-term preservation of GIS-based digital resources. It should be noted that although the overall emphasis is upon archaeological data, the information presented has much wider disciplinary implications"-- Section 1.1.

Instructional Guide for the ArcGIS Imagery Book May 17 2021 Using real data and real-world problems and events, the lessons in this guide provide both teachers and students with a fresh approach to imagery and remote sensing in GIS, one that allows learners to take their enthusiasm and run with it.

The Esri Guide to GIS Analysis, Volume 2 Dec 24 2021 Learn how to get better answers in map analysis when you use spatial measurements and statistics. Spatial measurements and statistics give you a powerful way to analyze geospatial data, but you don't need to understand complex mathematical theories to apply statistical tools and get meaningful results in your projects. The Esri Guide to GIS Analysis, Volume 2: Spatial Measurements and Statistics, second edition, builds on Volume 1 by taking you to the next step of GIS analysis. Learn to answer such questions as, how are features distributed? What is the pattern created by a set of features? Where can clusters be found? This book introduces readers to basic statistical concepts and some of the most common spatial statistics tasks: measuring distributions, identifying patterns and clusters, and analyzing relationships. Updated with the latest and most useful software tools and revised explanations, each chapter in The Esri Guide to GIS Analysis, Volume 2 is organized to answer basic questions about the topic. Explore how spatial statistical tools can be applied in a range of disciplines, from public health to habitat conservation. Learn how to quantify patterns beyond visualizing them in maps. Examine spatial clusters through an updated chapter on identifying clusters. Use The Esri Guide to GIS Analysis, Volume 2, second edition, to understand the statistical methods and tools that can move your work past mapping and visualization to more quantitative statistical assessment.

GIS Tutorial Jun 25 2019 This study guide meets a growing demand for effective GIS training by combining ArcGIS tutorials and self-study exercises that start with the basics and progress to more difficult functionality. Presented in a step-by-step format, the book can be adapted to a reader's specific training needs, from a classroom of graduate students to individaul study. Readers learn to use a range of GIS functionality from creating maps and collecting data to using geoprocessing tools and models for advanced analysis. the authors have incorporated three proven learning methods: scripted exercises that use detailed step-by-step insturctions and result graphics, Your Turn exercises that require users to perform tasks without steo-by-step instructions, and exercise assignements that pose real-world problem scenarios. A fully functioning, 180-day trial version of ArcView 9.2 software, data for working through the tutorials, and Web-based teacher resources are also included.
Map Librarianship Apr 15 2021 Map Librarianship identifies basic geoliteracy concepts and enhances reference and

instruction skills by providing details on finding, downloading, delivering, and assessing maps, remotely sensed imagery, and other geospatial resources and services, primarily from trusted government sources. By offering descriptions of traditional maps, geographic information systems (GIS), remote sensing, and other geospatial technologies, the book provides a timely and practical guide for the map and geospatial librarian to blend confidence in traditional library skill sets. Includes rarely discussed concepts of citing and referencing maps and geospatial data, fair use and copyright Creates an awareness and appreciation of existing print map collections, while building digital stewardship with surrogate map and aerial imagery collections Provides an introduction to the theory and applications of GIS, remote sensing, participatory neogeography and neocartography practices, and other geospatial technologies Includes a list of geospatial resources with descriptions and illustrations of commonly used map types and formats, online geospatial data sources, and an introduction to the most commonly used geospatial software packages available, on both desktop and mobile platforms

Geocomputation with R Sep 28 2019 Geocomputation with R is for people who want to analyze, visualize and model geographic data with open source software. It is based on R, a statistical programming language that has powerful data processing, visualization, and geospatial capabilities. The book equips you with the knowledge and skills to tackle a wide range of issues manifested in geographic data, including those with scientific, societal, and environmental implications. This book will interest people from many backgrounds, especially Geographic Information Systems (GIS) users interested in applying their domain-specific knowledge in a powerful open source language for data science, and R users interested in extending their skills to handle spatial data. The book is divided into three parts: (I) Foundations, aimed at getting you up-to-speed with geographic data in R, (II) extensions, which covers advanced techniques, and (III) applications to real-world problems. The chapters cover progressively more advanced topics, with early chapters providing strong foundations on which the later chapters build. Part I describes the nature of spatial datasets in R and methods for manipulating them. It also covers geographic data import/export and transforming coordinate reference systems. Part II represents methods that build on these foundations. It covers advanced map making (including web mapping), "bridges" to GIS, sharing reproducible code, and how to do cross-validation in the presence of spatial autocorrelation. Part III applies the knowledge gained to tackle real-world problems, including representing and modeling transport systems, finding optimal locations for stores or services, and ecological modeling. Exercises at the end of each chapter give you the skills needed to tackle a range of geospatial problems. Solutions for each chapter and supplementary materials providing extended examples are available at https://geocompr.github.io/geocompkg/articles/. Dr. Robin Lovelace is a University Academic Fellow at the University of Leeds, where he has

taught R for geographic research over many years, with a focus on transport systems. Dr. Jakub Nowosad is an Assistant Professor in the Department of Geoinformation at the Adam Mickiewicz University in Poznan, where his focus is on the analysis of large datasets to understand environmental processes. Dr. Jannes Muenchow is a Postdoctoral Researcher in the GIScience Department at the University of Jena, where he develops and teaches a range of geographic methods, with a focus on ecological modeling, statistical geocomputing, and predictive mapping. All three are active developers and work on a number of R packages, including stplanr, sabre, and RQGIS. *Introducing Geographic Information Systems with ArcGIS* Feb 11 2021 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. **The GIS 20** Jul 07 2020 A quick start to learning the basics of visualization and mapmaking skills in ArcGIS(R) Desktop 10.6. **QGIS Quick Start Guide** Mar 15 2021 Step through loading GIS data, creating GIS data, styling GIS and making maps with QGIS following a simple narrative that will allow you to build confidence as you progress. Key FeaturesWork with GIS data, a step by step guide from creation to making a mapPerform geoprocessing tasks and automate them using model builderExplore a range of features in QGIS 3.4, discover the power behind open source desktop GISBook Description QGIS is a user friendly, open source geographic information system (GIS). The popularity of open source GIS and QGIS, in particular, has been growing rapidly over the last few years. This book is designed to help beginners learn about all the tools required to use QGIS 3.4. This book will provide you with clear, step-by-step instructions to help you apply your GIS knowledge to QGIS. You begin with an overview of QGIS 3.4 and its installation. You will learn how to load existing spatial data and create vector data from scratch. You will then be creating styles and labels for maps. The final two chapters demonstrate the Processing toolbox and include a brief investigation on how to extend QGIS. Throughout this book, we will be using the GeoPackage format, and we will also discuss how QGIS can support many different types of data. Finally, you will learn where to get help and how to become engaged with the GIS community. What you will learnUse existing data to interact with the canvas via zoom/pan/selectionCreate vector data and a GeoPackage and build a simple project around itStyle data, both vector and raster data, using the Layer Styling PanelDesign, label, save, and export maps using the data you have createdAnalyze spatial queries using the Processing toolboxExpand QGIS with the help of plugins, model builder, and the command lineWho this book is for If you know the basic functions and processes of GIS, and want to learn to use QGIS to analyze geospatial data and create rich mapping applications, then this is the book for you.