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D4PXNF - JADA BLAKE

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! 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.

Ready to show what you know as a professional ArcGIS Desktop user? The Esri ArcGIS Desktop Professional Certification Study Guide prepares candidates taking the latest (10.5) ArcGIS Desktop Professional Certification exam. Chapters parallel exam sections and combine GIS concepts with practi-

cal applications. Following a three-part structure, prepare with topics in the ArcGIS documentation that candidates need to know for the exam, practice with included assignments or with links to continually updated online resources, then finish by checking your skills against a list of tasks that candidates should be able to perform. The Esri ArcGIS Desktop Professional Certification Study Guide is your complete, consolidated resource to confidently master the ArcGIS Desktop Professional Certification exam.

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.

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 ArcGIS Desktop Certification Study Guide

for 10.5 is tailored to meet the preparation needs of candidates taking the ArcGIS Desktop Associate exam. The study guide covers general exam concepts and provides key review on exam objectives. This is a comprehensive review of the GIS skills and knowledge measured in the ArcGIS Desktop Associate certification exam and focuses on helping candidates identify skills gaps and refreshing an individual's knowledge rather than teaching to the exam. The book provides additional resources for self-study including pointing to existing resources whenever applicable. The e-book of Esri ArcGIS Desktop Associate Certification Study Guide for 10.5, 9781589485150, \$79.99, will be available at most online book retailers.

GIS Tutorial for ArcGIS Pro 2.6 is the introductory workbook for learning geographic information systems with ArcGIS Pro, the premier professional desktop GIS application from Esri.

Comprehensive guide, for practitioners and students on concepts, practices, tools for management of geographic information system (GIS) programs and projects. English

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.

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 ac-

quire 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.

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 individual 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 instructions and result graphics, Your Turn exercises that require users to perform tasks without step-by-step instructions, and exercise

assignments 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.

The Encyclopedia of GIS provides a comprehensive and authoritative guide, contributed by experts and peer-reviewed for accuracy, and alphabetically arranged for convenient access. The entries explain key software and processes used by geographers and computational scientists. Major overviews are provided for nearly 200 topics: Geoinformatics, Spatial Cognition, and Location-Based Services and more. Shorter entries define specific terms and concepts. The reference will be published as a print volume with abundant black and white art, and simultaneously as an XML online reference with hyperlinked citations, cross-references, four-color art, links to web-based maps, and other interactive features.

Workbook for learning how to use Python with ArcGIS for Desktop.

Create 2D maps and 3D scenes, analyze GIS data, and share your results

with the GIS community using the latest ArcGIS Pro 2 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.

This is a solution-based book, showcasing the real power of ArcGIS Geodatabase by following a real-world, example-based approach. This book is aimed at geospatial developers who want to work with ArcGIS geodatabases as well as manage them. Having knowledge of building a geodatabase from scratch isn't a must; Learning ArcGIS Geodatabases is ideal for those who want to use ArcGIS geodatabase for the first time, or for those who want to migrate from their existing legacy database to a geodatabase.

The Esri ArcGIS Desktop Associate Certification Study Guide is a comprehensive review of the GIS skills and knowledge measured in the ArcGIS Desktop Associate certification exam. This easy-to-use

study guide provides the following: Overviews of essential ArcGIS for Desktop tools and workflows to strengthen your skills Step-by-step exercises to reinforce what you've learned Challenge questions to test your knowledge The Esri ArcGIS Desktop Associate Certification Study Guide includes access to a 180-day version of ArcGIS 10.1 for Desktop Advanced software or ArcGIS Desktop 10 (ArcEditor license) software and a DVD containing data for working through the exercises.

Use Python modules such as ArcPy, ArcREST and the ArcGIS API for Python to automate the analysis and mapping of geospatial data. About This Book Perform GIS analysis faster by automating tasks. Access the spatial data contained within shapefiles and geodatabases and transform between spatial reference systems. Automate the mapping of geospatial analyses and production of map books. Who This Book Is For If you are a GIS student or professional who needs an understanding of how to use ArcPy to reduce repetitive tasks and perform analysis faster, this book is for you. It is also a valuable

book for Python programmers who want to understand how to automate geospatial analyses and implement ArcGIS Online data management. What You Will Learn Understand how to integrate Python into ArcGIS and make GIS analysis faster and easier. Create Python script using ArcGIS ModelBuilder. Learn to use ArcGIS online feature services and the basics of the ArcGIS REST API Understand the unique Python environment that is new with ArcGIS Pro Learn about the new ArcGIS Python API and how to use Anaconda and Jupyter with it Learn to control ArcGIS Enterprise using ArcPy In Detail ArcGIS allows for complex analyses of geographic information. The ArcPy module is used to script these ArcGIS analyses, providing a productive way to perform geo-analyses and automate map production. The second edition of the book focuses on new Python tools, such as the ArcGIS API for Python. Using Python, this book will guide you from basic Python scripting to advanced ArcPy script tools. This book starts off with setting up your Python environment for ArcGIS automation. Then you will learn how to output maps using ArcPy in MXD and

update feature class in a geodatabase using arcpy and ArcGIS Online. Next, you will be introduced to ArcREST library followed by examples on querying, updating and manipulating ArcGIS Online feature services. Further, you will be enabling your scripts in the browser and directly interacting with ArcGIS Online using Jupyter notebook. Finally, you can learn ways to use of ArcPy to control ArcGIS Enterprise and explore topics on deployments, data quality assurances, data updates, version control, and editing safeguards. By the end of the book, you will be equipped with the knowledge required to create automated analysis with administration reducing the time-consuming nature of GIS. Style and approach The book takes a pragmatic approach, showing ways to automate repetitive tasks and utilizing features of ArcPy with ArcGIS Pro and ArcGIS online.

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.

ArcGIS Desktop lets you perform the full range of GIS tasks - from geodatabase design and management to data editing; from map query to cartographic production and sophisticated geographic visualization and analysis. It is where the core work of GIS occurs. This book gives you an overview of the ArcGIS Desktop system and shows you how to access the basic functions of the software. This chapter introduces ArcMap, ArcCatalog, and ArcToolbox - the basic framework of ArcGIS Desktop - including the structure of each, the functions each performs, and how they're used together. The book covers the functions most people will use, plus a number of specialized tasks that you may need for specific applications. It illustrates the various tasks you can perform, shows where to access them in the user interface, and shows how to get started with a particular task using basic or default settings.

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 con-

cepts 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.

Create, analyze, and map your spatial data with ArcGIS for Desktop About This Book Learn how to use ArcGIS for Desktop to create and manage geographic data, perform vector and raster analysis, design maps, and share your

results Solve real-world problems and share your valuable results using the powerful instruments of ArcGIS for Desktop Step-by-step tutorials cover the main editing, analyzing, and mapping tools in ArcGIS for Desktop Who This Book Is For This book is ideal for those who want to learn how to use the most important component of Esri's ArcGIS platform, ArcGIS for Desktop. It would be helpful to have a bit of familiarity with the basic concepts of GIS. Even if you have no prior GIS experience, this book will get you up and running quickly. What You Will Learn Understand the functionality of ArcGIS for Desktop applications Explore coordinate reference system concepts and work with different map projections Create, populate, and document a file geodatabase Manage, create, and edit feature shapes and attributes Built automate analysis workflows with Model-Builder Apply basic principles of map design to create good-looking maps Analyze raster and three-dimensional data with the Spatial Analyst and 3D Analyst extensions In Detail ArcGIS for Desktop is one of the main components of the ESRI ArcGIS platform used to support deci-

sion making and solve real-world mapping problems. Learning ArcGIS for Desktop is a tutorial-based guide that provides a practical experience for those who are interested in start working with ArcGIS. The first five chapters cover the basic concepts of working with the File Geodatabase, as well as editing and symbolizing geospatial data. Then, the book focuses on planning and performing spatial analysis on vector and raster data using the geoprocessing and modeling tools. Finally, the basic principles of cartography design will be used to create a quality map that presents the information that resulted from the spatial analysis previously performed. To keep you learning throughout the chapters, all exercises have partial and final results stored in the dataset that accompanies the book. Finally, the book offers more than it promises by using the ArcGIS Online component in the tutorials as source of background data and for results sharing. This easy-to-follow guide is full of hands-on exercises that use open and free geospatial datasets. The basic features of the ArcGIS for Desktop are explained in a step-

by-step style. 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.

Backed by the collective knowledge and expertise of the world's leading Geographic Information Systems company, this volume presents the concepts and methods unleashing the full analytic power of GIS.

Focus on Geodatabases in ArcGIS Pro introduces readers to the geodatabase, the comprehensive information model for representing and managing geographic information across the ArcGIS platform. Sharing best practices for creating and maintaining data integrity, chapter topics include the careful design of a geodatabase schema, building geodatabases that include data integrity rules, populating geodatabases with existing data, working with topologies, editing data using various techniques, build-

ing 3D views, and sharing data on the web. Each chapter includes important concepts with hands-on, step-by-step tutorials, sample projects and datasets, 'Your turn' segments with less instruction, study questions for classroom use, and an independent project. Instructor resources are available by request.

Census workers need to capture and analyze information at the finest geographic level with mobile and geospatial-based technology. GIS and the 2020 Census: Modernizing Official Statistics provides statistical organizations with the most recent GIS methodologies and technological tools to support census workers' needs at all the stages of a census. Learn how to plan and carry out census work with GIS using new technologies for field data collection and operations management. After planning and collecting data, apply innovative solutions for performing statistical analysis, data integration and dissemination. Additional topics cover cloud computing, big data, Location as a Service (LaaS), and emerging data sources. While GIS and the 2020 Census focuses on using GIS and other geospatial

technology in support of census planning and operations, it also offers guidelines for building a statistical-geospatial information infrastructure in support of the 2020 Round of Censuses, evidence-based decision making, and sustainable development. Case studies illustrate concepts in practice.

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.

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

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 of 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 best-seller, 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.

"The definitive guide to a technology that succeeds or fails depending upon our ability to accommodate societal context and structures. This handbook is lucid, integrative, comprehensive and, above all, prescient in its interpretation of GIS implementa-

tion as a societal process." - Paul Longley, University College London "This is truly a handbook - a book you will want to keep on hand for frequent reference and to which GIS professors should direct students entering our field... Selection of a few of the chapters for individual attention is difficult because each one contributes meaningfully to the overall message of this volume. An important collection of articles that will set the tone for the next two decades of discourse and research about GIS and society." - Journal of Geographical Analysis Over the past twenty years research on the evolving relationship between GIS and Society has been expanding into a wide variety of topical areas, becoming in the process an increasingly challenging and multifaceted endeavour. The SAGE Handbook of GIS and Society is a retrospective and prospective overview of GIS and Society research that provides an expansive and critical assessment of work in that field. Emphasizing the theoretical, methodological and substantive diversity within GIS and Society research, the book highlights the distinctiveness and intellectual coherence

of the subject as a field of study, while also examining its resonances with and between key themes, and among disciplines ranging from geography and computer science to sociology, anthropology, and the health and environmental sciences. Comprising 27 chapters, often with an international focus, the book is organized into six sections: Foundations of Geographic Information and Society Geographical Information and Modern Life Alternative Representations of Geographic Information and Society Organizations and Institutions Participation and Community Issues Value, Fairness, and Privacy Aimed at academics, researchers, postgraduates, and GIS practitioners, this Handbook will be the basic reference for any inquiry applying GIS to societal issues.

Python Scripting for ArcGIS Pro is the definitive, easy-to-follow guide to writing useful Python code with spatial data in ArcGIS Pro, whether you're new to programming or not.

GIS and the Social Sciences offers a uniquely social science approach on the theory and application of GIS with a range of modern examples. It explores how human geography can engage with a va-

riety of important policy issues through linking together GIS and spatial analysis, and demonstrates the importance of applied GIS and spatial analysis for solving real-world problems in both the public and private sector. The book introduces basic theoretical material from a social science perspective and discusses how data are handled in GIS, what the standard commands within GIS packages are, and what they can offer in terms of spatial analysis. It covers the range of applications for which GIS has been primarily used in the social sciences, offering a global perspective of examples at a range of spatial scales. The book explores the use of GIS in crime, health, education, retail location, urban planning, transport, geodemographics, emergency planning and poverty/income inequalities. It is supplemented with practical activities and datasets that are linked to the content of each chapter and provided on an eResource page. The examples are written using ArcMap to show how the user can access data and put the theory in the textbook to applied use using proprietary GIS software. This book serves as a useful guide to a so-

cial science approach to GIS techniques and applications. It provides a range of modern applications of GIS with associated practicals to work through, and demonstrates how researcher and policy makers alike can use GIS to plan services more effectively. It will prove to be of great interest to geographers, as well as the broader social sciences, such as sociology, crime science, health, business and marketing. This book is a practical, step-by-step tutorial providing a complete reference guide to the setup, installation, and administration of ArcGIS Server technology. If you are a GIS user, analyst, DBA, or programmer with a basic knowledge of ESRI GIS, then this book is for you.

F. F. Bosworth's earnest prayer was that many thousands would learn to apply the promises of God's Word to their lives through his book, *Christ the Healer*. Bosworth offers an astonishing discussion of healing, based on the premise that Jesus redeemed us from our diseases when he atoned for our sins. This classic on healing, first released in 1924, has sold more than 500,000 copies and continues to enrich and inspire

new readers every day. This revised and expanded edition includes a brand-new foreword and epilogue on the remarkable life and healing of the author himself, written by his son.

Teaches readers how to develop reusable geoprocessing workflows and run these programs as models -- Back cover.

The sixth edition of *Getting to Know ArcGIS(R) Desktop 10.8*, the best-selling guide to learning ArcGIS Desktop, provides a comprehensive introduction to features and tools of ArcGIS Desktop 10.8.x.

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 ArcGIS* integrates 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 soft-

ware 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.

In this fourth edition of Understanding GIS -- the only book teaching how to conceive, develop, finish,

and present a GIS project -- all exercises have been updated to use Esri's ArcGIS Pro software with revamped data. The book

guides readers with explanations of project development concepts and exercises that foster critical thinking.