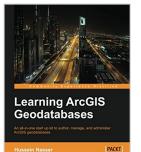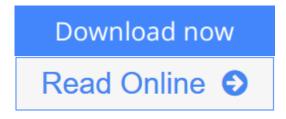# Learning ArcGIS Geodatabase

By Hussein Nasser

Learning ArcGIS Geodatabase By Hussein Nasser

An all-in-one start up kit to author, manage, and administer ArcGIS geodatabases

About This Book

- Covers the basics of building Geodatabases, using ArcGIS, from scratch
- Model the Geodatabase to an optimal state using the various optimization techniques
- Packed with real-world examples showcasing ArcGIS Geodatabase to build mapping applications in web, desktop, and mobile

Who This Book Is For

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.

What You Will Learn

- Explore the benefits of geodatabases with practical illustrations
- Work with geodatabase datasets covering feature classes, tables, relationship classes, coverage, and annotations
- Model your geodatabase by creating a sturdy design that can sustain large edits and decrease maintenance
- Discover various tools to optimize queries and response time, which will help you to fine-tune your geodatabase
- Utilize Python scripting to author your geodatabase programmatically
- Set up and configure a full-fledged networked enterprise geodatabase using ArcSDE technology
- Add programming flavors to your geodatabase using Python

In Detail

ArcGIS is an industry standard for geospatial development and management. A geodatabase is the database used to store and manage the spatial data.

Learning ArcGIS Geodatabases offers a comprehensive working and practical experience for readers who are interested in knowing about ArcGIS. The initial chapters guide you through authoring geodatabases and creating a geodatabase schema and datasets. Then, the book focuses extensively on modeling and optimizing geodatabases.

Finally, you will be able to work comfortably with datasets, annotations, and relationship classes, making it easier to migrate from a legacy database to an ArcGIS geodatabase.

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Editorial Review

About the Author

Hussein Nasser

Hussein Nasser is an Esri award-winning senior GIS solution architect at Electricity and Water Authority, Bahrain. He was the first author to write about the ArcGIS for Server technology after its complete revamp in Version 10.1. In 2007, Hussein won the annual ArcGIS for Server Code Challenge conducted at the Esri Developer Summit in Palm Springs, California, for using the AJAX technology with ArcGIS for Server, which was not implemented back then. His eight-year career as a GIS architect at the leading Middle Eastern engineering company Khatib & Alami involved implementing various utility GIS systems based on the Esri technology across the Middle East. After this, Hussein decided to move to a more focused environment at Electricity and Water Authority, Bahrain, his homeland, where he could channel his expertise to develop a robust GIS utility solution and fully integrate it with the e-government project, which would help Bahrain march towards the smart grid. Beyond GIS, Hussein is fascinated by acute research topics. Among the papers he is currently working on are The Human API: A Software Interface to Prevent Cancer, Global Economic Crisis and Natural Disasters Quantum Detector, and the Stock Market and the Moon Phases.

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