



Fundamentals of Geographic Information Systems

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Wiley, 2004. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: UNIT 1. INTRODUCTION.Chapter 1. Introduction to Digital Geography.Learning Objectives. Why Geographic Information Systems? What Are Geographic Information Systems? Where Do I Begin?Terms.Review Questions.References.UNIT 2. DIGITAL GEOGRAPHIC DATA AND MAPS.Chapter 2. Basic Geographic Concepts.Learning Objectives.Developing Spatial Awareness. Spatial Measurement Levels. Spatial Location and Reference. Spatial Patterns.Geographic Data Collection.Populations and Sampling Schemes.Making Inferences from Samples.Terms.Review Questions.References.Chapter 3. Map Basics.Learning Objectives. Abstract Nature of Maps. A Paradigm Shift in Cartography. Map Scale. More Map Characteristics.Map Projections.Grid Systems for Mapping.The Cartographic Process.Map Symbolism.Map Abstraction and Cartographic Databases.Terms.Review Questions.References.Chapter 4. GIS Data Models.Learning Objectives.A Quick Review of the Map as an Abstraction of Space. Some Basic Computer File Structures. Simple Lists. Ordered Sequential Files.Indexed Files.Computer Database Structures for Managing Data.Hierarchical Data Structures. Network Systems. Relational Database Management Systems. Graphic Representation of Entities and Attributes.GIS Data Models for Multiple Maps.Raster Models.Compact Storing of Raster Data.Commercial Raster Compaction Products.Vector Models.Compacting Vector Data Models.A Vector Model to Represent Surfaces. Hybrid and Integrated Systems.Terms.Review Questions.References.UNIT 3. INPUT, STORAGE, AND EDITING.Chapter 5. The Input Subsystem.Learning Objectives.Primary Data.Input Devices.Raster, Vector, or Both.Reference Frameworks and Transformations.Map Preparation and the Digitizing Process.What to Input.How Much to Input.Methods of Vector Input.Methods of Raster Input.Remote Sensing as a Special Case of Raster Data Input.GPS data input.Secondary...



Reviews

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