

Fundamentals of Geographic Information Systems



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Reviews

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(Prof. Erin Larson I)

FUNDAMENTALS OF GEOGRAPHIC INFORMATION SYSTEMS



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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 Data. Metadata and Metadata Standards. Terms. Review Questions. References. Chapter 6 Data Storage and Editing. Learning Objectives. Storage of GIS Databases. The Importance of Editing the GIS Database. Detecting and Editing Errors of Different Types. Entity Errors: Vector. Attribute Errors: Raster and Vector. Dealing with Projection Changes. Joining Adjacent Maps: Edge Matching. Conflations. Templating. Terms. Review Questions. References. UNIT 4. ANALYSIS: THE HEART OF THE GIS. Chapter 7. Elementary Spatial Analysis. Introduction to GIS Spatial Analysis. Learning Objectives. Preliminary Notes About Flowcharting. GIS Data Query. Locating and Identifying Spatial Objects. Defining Spatial Characteristics. Point Attributes. Line Attributes. Area Attributes. Working with Higher-Level Objects. Higher-Level Point Objects. Higher-Level Line Objects. Higher-Level Area Objects. Terms. Review Questions. References. Chapter 8. Measurement. Learning Objectives. Measuring Length of Linear Objects. Measuring Polygons. Calculating Polygon Lengths. Calculating Perimeter. Calculating Areas of Polygonal Features. Measuring Shape. Measuring Sinuosity. Measuring Polygon Shape. Measuring Distance. Simple...



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