

Geographic Information System

By Jatin Pandey, Darshana Pathak

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Geographic Information System (GIS) aims to organize complex interrelation between different layers of information through a process of gathering, analysing, processing, storing, and presenting the spatial data and images available through different sources. It integrates hardware, software, and data for capturing, managing, analysing, and displaying all forms of geographically referenced information. This book presents theory, methods, and latest research finding for problem-solving and decision-making using GIS-based technologies.

Key Features:

- Explains raster and vector data and attributive database.
- Discusses application of GIS in geotechnical engineering, transport engineering, and water resource engineering.
- Includes model question papers and is well illustrated

Contents:

Introduction to Geographic Information System

- Information System
- Geographic Information System
- Cartography and GIS
- GIS Database
- GIS Data Type
- GIS Data Models
- Topology and GIS

Raster and vector data

- Vector Data
- Raster Data
- Raster Encoding Methods
- Shape of the Earth
- Transformation
- Digitization

Attribute database and overlay

- Attribute Data
- Relations
- GIS Functionality
- Spatial Query
- Vector Data Queries
- Classification
- Overlay
- Buffer
- Inter-visibility
- Network Theory

Remote Sensing and Digital Image Processing

- Remote Sensing
- Sources of Energy for Remote Sensing
- Interaction of Electromagnetic Radiation with Atmosphere
- Interaction of Electromagnetic Radiation with the Earth's Surface
- Use of Electromagnetic Spectrum for Remote Sensing Purposes
- Process of Remote Sensing
- Sensors and Platforms
- Orbits and Swaths
- Platforms
- Image Processing
- Applications of Remote Sensing

Applications of GIS

- GIS in Planning and Management of Utility Lines
- Geotechnical Engineering
- Water Resource Engineering
- Example of GIS Application Development with Open Source

Numerical Problems

- Scale Conversions
- Playing with Database

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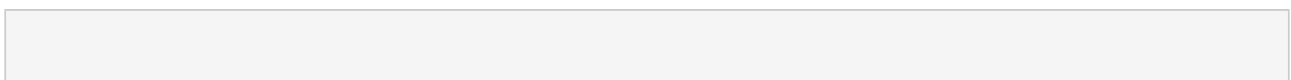
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