



An Introduction to Geoinformatics

G. S. Srivastava

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Geoinformatics is the integration of different disciplines dealing with spatial information. The advent of Satellite Remote Sensing and subsequent development of Global Positioning System (GPS) and Geographical Information System (GIS) have made significant changes in surveying and map making. In light of this, both in the academia and the industry, these topics have been brought together under one umbrella term Geoinformatics.

This is the first comprehensive study on Geoinformatics meant for students and professionals which brings together the essential elements of Photogrammetry, Remote Sensing, GPS and GIS. A basic understanding of these components is crucial for carrying out various types of surveys, navigation, geodynamics, hydrology, disaster management, etc.

The book is conceptually divided into four parts:

Part I: Photogrammetry covers aerial photography, stereoscopic vision, radial line methods and map compilation, and aerial mosaics

Part II: Remote Sensing discusses basic concepts of remote sensing, data acquisition system, multispectral remote sensing, remote sensing in thermal infrared region, remote sensing in microwave region, satellite remote sensing, and satellite image interpretation

Part III: Global Positioning System dwells on map, map projection, global positioning system, differential GPS, and GPS applications

Part IV: Geographical Information System focuses on database management system and geographical information system

Highlights of the book:

Provides theoretical and practice-based knowledge about essential elements of Photogrammetry, Remote Sensing, GPS and GIS Each chapter includes Suggestions for Further Reading and Frequently Asked Question. Lucid presentation supported by line diagrams and illustrations Simplified and illustrated narration ideal for students of Geoinformatics, environment studies, geology, and geography and professionals pursuing GPS and GIS A systematic approach to the subject coupled with lucid narration and suitable illustrations, An ntrouction to Geoinformatics willbe invaluable for students pursuing various courses on Geoinformatics, environment studies, geology, and geography and will prove useful and handy for professionals pursuing GPS and GIS.

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