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Nota di contenuto	Front cover; Contents; Preface; Acknowledgments; Editors; Contributors; Part I: Prerequisites; Chapter 1. An Introduction to Geospatial Science and Technology; Chapter 2. Coordinates and Coordinate Systems; Chapter 3. Datums and Geospatial Reference Systems; Chapter 4. Coordinate Transformations; Chapter 5. Basic Electromagnetic Radiation; Chapter 6. Data Analysis; Part II: Global Positioning System; Chapter 7. Introducing the Global Positioning System; Chapter 8. Fundamentals of GPS Signals and Data; Chapter 9. GPS Positioning Models for Single Point and Baseline Solutions Chapter 10. GPS Instrumentation IssuesChapter 11. Making Sense of GNSS Techniques; Chapter 12. GPS Projects: Some Planning Issues; Chapter 13. Carrying Out a GPS Surveying/Mapping Task; Chapter 14.

Servicing the GPS/ GNSS User; Chapter 15. GPS, GNSS, and the Future; Part III: Remote Sensing; Chapter 16. Photogrammetry for Remote Sensing; Chapter 17. Remote-Sensing Analysis: From Project Design to Implementation; Chapter 18. Remote-Sensing Systems for Operational and Research Use; Chapter 19. Information Extraction from Remotely Sensed Data
Chapter 20. Image Processing Software for Remote SensingChapter 21. How to Assess the Accuracy of Maps Generated from Remotely Sensed Data; Chapter 22. Emerging Markets for Satellite and Aerial Imagery; Chapter 23. Airborne LIDAR Mapping; Chapter 24. Selected Scientific Analyses and Practical Applications of Remote Sensing: Examples from the Coast; Chapter 25. Remote Sensing- A Look to the Future; Part IV: Geographic Information Systems; Chapter 25. Geographic Information Systems and Science; Chapter 27. GIS Fundamentals; Chapter 28. Geographic Data Structures
Chapter 29. Spatial Analysis and ModelingChapter 30. Spatial Data Quality; Chapter 31. Cartography and Visualization; Chapter 32. Carrying Out a GIS Project; Chapter 33. Geographic Information Science and Society; Part V: Applications; Chapter 34. Biophysical and Human-Social Applications; Chapter 35. Local Government Applications: Toward E-Governance; Chapter 36. Geographic Information Technology in State Governments of the United States; Chapter 37. National, International, and Global Activities in Geospatial Science: Toward a Global Spatial Data Infrastructure
Chapter 38. Private Sector ApplicationsChapter 39. Geospatial Solutions for Utility Infrastructure: A Summary of the Use of GIT in Utilities Today; Index; Back cover

Sommario/riassunto

Following in the tradition of its popular predecessor, the Manual of Geospatial Science and Technology, Second Edition continues to be the authoritative volume that covers all aspects of the field, both basic and applied, and includes a focus on initiating, planning, and managing GIS projects. This comprehensive resource, which contains contributions from 53 leading experts and professors in the areas of GIS, GPS, and remote sensing, reflects the very latest advances in the technology, applications, and usage of the geospatial sciences in many key disciplines, from natural
