In an age of unprecedented proliferation of data from disparate sources the urgency is to create efficient methodologies that can optimise data combinations and at the same time solve increasingly complex application problems. Integration of GIS and Remote Sensing explores the tremendous potential that lies along the interface between GIS and remote sensing for activating interoperable databases and instigating information interchange. It concentrates on the rigorous and meticulous aspects of analytical data matching and thematic compatibility - the true roots of all branches of GIS/remote sensing applications. However closer harmonization is tempered by numerous technical and institutional issues, including scale incompatibility, measurement disparities, and the inescapable notion that data from GIS and remote sensing essentially represent diametrically opposing conceptual views of reality.

The first part of the book defines and characterises GIS and remote sensing and presents the reader with an awareness of the many scale, taxonomical and analytical problems when attempting integration. The second part of the book moves on to demonstrate the benefits and costs of integration across a number of human and environmental applications.

This book is an invaluable reference for students and professionals dealing not only with GIS and remote sensing, but also computer science, civil engineering, environmental science and urban planning within the academic, governmental and commercial/business sectors.
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FEATURES

• Integration of GIS and Remote Sensing will form part of the Mastering GIS series, where the approach is to provide students of GIS with a one-stop-shop of information in specific areas.

• First sole-authored book to focus on integrating GIS and Remote Sensing technologies

• Provides students and professionals with background information on GIS and RS, and the most salient technological issues of integration

• Appendices detail necessary information on data providers and advantages-disadvantages of available off-the-shelf software

SERIES

Mastering GIS: Technol" Applications & Mgmt

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