



Urban Remote Sensing

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Driven by advances in technology and societal needs, the next frontier in remote sensing is urban areas. With the advent of high-resolution imagery and more capable techniques, the question has become "Now that we have the technology, how do we use it?" The need for a definitive resource that explores the technology of remote sensing and the issues it can resolve in an urban setting has never been more acute.

Containing contributions from world renowned experts, **Urban Remote Sensing** provides a review of basic concepts, methodologies, and case studies. Each chapter demonstrates how to apply up-to-date techniques to the problems identified and how to analyze research results.

Organized into five sections, this book:

- Focuses on data, sensors, and systems considerations as well as algorithms for urban feature extraction
- Analyzes urban landscapes in terms of composition and structure, especially using sub-pixel analysis techniques
- Presents methods for monitoring, analyzing, and modeling urban growth
- Illustrates various approaches to urban planning and socio-economic applications of urban remote sensing
- Assesses the progress made to date, identifies the existing problems and challenges, and demonstrates new
 developments and trends in urban remote sensing

This book is ideal for upper division undergraduate and graduate students, however it can also serve as a reference for researchers or those individuals interested in the remote sensing of cities in academia, and governmental and commercial sectors. **Urban Remote Sensing** examines how to apply remote sensing technology to urban and suburban areas.



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