



# Urban Remote Sensing: Monitoring, Synthesis and Modeling in the Urban Environment

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## Urban Remote Sensing: Monitoring, Synthesis and Modeling in the Urban Environment From Wiley

*Urban Remote Sensing* is designed for upper level undergraduates, graduates, researchers and practitioners, and has a clear focus on the development of remote sensing technology for monitoring, synthesis and modeling in the urban environment. It covers four major areas: the use of high-resolution satellite imagery or alternative sources of image data (such as high-resolution SAR and LIDAR) for urban feature extraction; the development of improved image processing algorithms and techniques for deriving accurate and consistent information on urban attributes from remote sensor data; the development of analytical techniques and methods for deriving indicators of socioeconomic and environmental conditions that prevail within urban landscape; and the development of remote sensing and spatial analytical techniques for urban growth simulation and predictive modeling.

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## **Editorial Review**

### **Review**

"This book is a great addition to the very few books on urban remote sensing." (*Photogrammetric Engineering and Remote Sensing*, 1 March 2013)

"This excellent textbook provides a thorough grounding in the uses and types of remote sensing techniques employed for analyzing population, energy use, and other aspects of the urban environment." (Book News, 1 August 2011)

### **From the Back Cover**

**Urban Remote Sensing** is a 'state-of-the-art' review of the latest development in the subject. It examines how the modern concepts, technologies and methods in remote sensing can be effectively used to solve problems relevant to a wide range of topics extending beyond urban feature extraction into areas of urban socioeconomic and environmental analyses and predictive modeling of urbanization. The text covers the advances in sensors and algorithms for deriving urban attribute information, clearly explains how to integrate remote sensing and relevant geospatial techniques for developing indicators of urban socioeconomic and environmental status, and creatively explores the roles of remote sensing and dynamic modeling techniques for urban growth simulation and prediction.

Chapters are written by leading scholars and researchers from a variety of fields, including remote sensing, geocomputation, geography, urban planning and environmental science, with case studies predominately drawn from North America and Europe.

- An introduction to a broad vision of urban remote sensing research that draws upon a number of disciplines to support monitoring, synthesis and modeling in the urban environment
- Illustrated in full color throughout, including numerous relevant case studies and extensive discussions of important concepts and cutting edge technologies to enable clearer understanding for non-technical audiences
- This book will be invaluable to upper-division undergraduate and graduate students, researchers and professionals working in the fields of remote sensing, geographic information systems, urban planning, geography, and environmental science.

## **Users Review**

### **From reader reviews:**

#### **Gerald Dews:**

Urban Remote Sensing: Monitoring, Synthesis and Modeling in the Urban Environment can be one of your beginning books that are good idea. We recommend that straight away because this e-book has good vocabulary that may increase your knowledge in vocab, easy to understand, bit entertaining but nevertheless delivering the information. The copy writer giving his/her effort to place every word into joy arrangement in

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In this period of time globalization it is important to someone to receive information. The information will make anyone to understand the condition of the world. The health of the world makes the information easier to share. You can find a lot of recommendations to get information example: internet, paper, book, and soon. You can view that now, a lot of publisher that will print many kinds of book. The actual book that recommended to you is *Urban Remote Sensing: Monitoring, Synthesis and Modeling in the Urban Environment* this book consist a lot of the information with the condition of this world now. This kind of book was represented so why is the world has grown up. The dialect styles that writer value to explain it is easy to understand. The actual writer made some investigation when he makes this book. Here is why this book ideal all of you.

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