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| ISBN                    | 1-119-30732-5<br>1-119-30733-3<br>1-119-30730-9  |
| Descrizione fisica      | 1 online resource (403 pages) : illustrations  |
| Disciplina              | 307.1/216  |
| Soggetti                | Remote sensing<br>City planning - Remote sensing   |
| Lingua di pubblicazione | Inglese  |
| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
| Note generali           | Includes bibliographical references and index  |
| Nota di bibliografia    | Includes bibliographical references and index.   |
| Nota di contenuto       | Urban mapping requirements -- The scale issue -- Building extraction and classification -- Estimation and mapping of impervious surfaces -- Land surface temperature data generation -- Urban heat islands modeling and analysis -- Estimation of urban surface energy fluxes -- Cities at night -- Urban runoff modeling and prediction -- Urban ecology of West Nile Virus -- Impacts of urbanization on land surface temperature and water quality -- Remote sensing of socioeconomic attributes  |
| Sommario/riassunto      | Techniques and Methods in Urban Remote Sensing offers a comprehensive guide to the recent theories, methods, techniques, and applications in urban remote sensing. Written by a noted expert on the subject, this book explores the requirements for mapping impervious surfaces and examines the issue of scale. The book covers a range of topics and includes illustrative examples of commonly used methods for estimating and mapping urban impervious surfaces, explains how to determine urban thermal landscape and surface energy balance, and offers information on impacts of urbanization on land surface temperature, water quality, and environmental health. Techniques and Methods in Urban Remote Sensing brings together in one volume the |

latest opportunities for combining ever-increasing computational power, more plentiful and capable data, and more advanced algorithms. This allows the technologies of remote sensing and GIS to become mature and to gain wider and better applications in environments, ecosystems, resources, geosciences, geography and urban studies. This important book: contains a comprehensive resource to the latest developments in urban remote sensing; explains urban heat islands modeling and analysis; includes information on estimating urban surface energy fluxes; offers a guide to generating data on land surface temperature. Written for professionals and students of environmental, ecological, civic and urban studies, *Techniques and Methods in Urban Remote Sensing* meets the demand for an updated resource that addresses the recent advances urban remote sensing

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