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This book provides a comprehensive overview of the state of the art in the field of thermal infrared remote sensing. Temperature is one of the most important physical environmental variables monitored by earth observing remote sensing systems. Temperature ranges define the boundaries of habitats on our planet. Thermal hazards endanger our resources and well-being. In this book renowned international experts have contributed chapters on currently available thermal sensors as well as innovative plans for future missions. Further chapters discuss the underlying physics and image processing techniques for analyzing thermal data. Ground-breaking chapters on applications present a wide variety of case studies leading to a deepened understanding of land and sea surface temperature dynamics, urban heat island effects, forest fires, volcanic eruption precursors, underground coal fires, geothermal systems, soil moisture variability, and temperature-based mineral discrimination. ‘Thermal Infrared Remote Sensing: Sensors, Methods, Applications’ is unique because of the large field it spans, the potentials it reveals, and the detail it provides.

This book is an indispensable volume for scientists, lecturers, and decision makers interested in thermal infrared technology, methods, and applications.

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Editorial Review

Review

“The editors of this book are to be congratulated for an excellent job, as are the publisher and the authors. … the text, equations, and illustrations, especially the abundant color images, are easy to read. … Thermal Infrared Remote Sensing: Sensors, Methods, Applications is a book I am personally recommending to my colleagues and collaborators, many of whom have worked intensively in the field for three decades. It is also within reach of undergraduates and distinctly useful for graduate students.” (Doug Rickman, Photogrammetric Engineering & Remote Sensing, May, 2015)

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