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| 1. Record Nr. | UNISA990006150280203316 |
| Titolo | 3: artt. 2907-2969 / Mauro Bove... [et al.] |
| Pubbl/distr/stampa | Torino : UTETgiuridica, 2016 |
| ISBN | 978-88-598-1298-2 |
| Descrizione fisica | XIX, 888 p. ; 24 cm |
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| 2. Record Nr. | UNINA9910809275703321 |
| Autore | Harris Andrew <1967-> |
| Titolo | Thermal remote sensing of active volcanoes : a user's manual // by Andrew Harris [[electronic resource]] |
| Pubbl/distr/stampa | Cambridge : , : Cambridge University Press, , 2013 |
| ISBN | 1-107-23357-7
1-107-32652-4
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| Descrizione fisica | 1 online resource (ix, 727 pages) : digital, PDF file(s) |
| Classificazione | TEC036000 |
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| Soggetti | Volcanic ash, tuff, etc - Temperature - Remote sensing
Volcanological research
Terrestrial radiation - Measurement
Volcanic activity prediction |
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Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Machine generated contents note: Preface: background, motivation and essential definitions; Acknowledgements; 1. History of thermal remote sensing of active volcanism; 2. Thermal remote sensing of active volcanism: principles; 3. Satellite orbits and sensor resolution; 4. The mixed pixel, the dual-band technique, heat loss and volume flux; 5. Hot spot detection; 6. Mapping, classification, time series and profiles; 7. Broad-band radiometers: instrumentation and application; 8. Broad-band radiometers: data collection and analysis principles; 9. Broad-band thermal imaging cameras; Appendix A. Collation and summary of satellite-volcano radiometry: a literature database; Appendix B. Estimation of solar zenith angle and contribution of reflected radiation to at-satellite radiance; Appendix C. TM-Class sensors; Appendix D. AVHRR-Class sensors; Appendix E. GOES-Class sensors; Appendix F. Scan and satellite location geometry; Appendix G. Hot spot detection example; Appendix H. Optical pyrometers; References; Index.
Sommario/riassunto	Encapsulating over one hundred years of research developments, this book is a comprehensive manual for measurements of Earth surface temperatures and heat fluxes, enabling better detection and measurement of volcanic activity. With a particular focus on volcanic hot spots, the book explores methodologies and principles used with satellite-, radiometer- and thermal-camera data. It presents traditional applications using satellite and ground based sensors as well as modern applications that have evolved for use with hand-held thermal cameras and is fully illustrated with case studies, databases and worked examples. Chapter topics include techniques for thermal mixture modelling and heat flux derivation, and methods for data collection, mapping and time-series generation. Appendices and online supplements present additional specific notes on areas of sensor application and data processing, supported by an extensive reference list. This book is an invaluable resource for academic researchers and graduate students in thermal remote sensing, volcanology, geophysics and planetary studies.