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Autore	Coates Peter -2013
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Edizione	[1st ed.]
Descrizione fisica	1 online resource (263 pages) : illustrations, tables
Disciplina	681/.2
Soggetti	Radiation pyrometers Temperature measurements Radiation - Measurement
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Chapter 1. The quantity 'temperature' -- Chapter 2. Fundamental laws -- Chapter 3. Characteristics of surfaces -- Chapter 4. Radiation thermometer design considerations -- Chapter 5. Detectors -- Chapter 6. Series expansion analytical technique -- Chapter 7. Multi-wavelength radiation thermometry -- Chapter 8. Emissivity correction methods.
Sommario/riassunto	The book covers the fundamentals of what needs to be considered when using the brightness of a hot object as the method of determining its temperature. As the book covers detailed selection criteria for instrument components, typically this would be expected to be within a research project or a measurement laboratory, possibly an instrument manufacturer. Industrial users would be likely to buy a commercial instrument and follow the manufacturers' guidelines, but even in that situation an understanding of what the instrument is doing would be invaluable. This book would be helpful to anyone who plans to specify and/or make a radiation thermometer (or radiation pyrometer)--

