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Edizione	[2nd ed.]
Descrizione fisica	1 online resource (xiv, 208 pages) : digital, PDF file(s)
Collana	Cambridge observing handbooks for research astronomers ; ; 5
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Soggetti	Astronomy - Technique Charge coupled devices
Lingua di pubblicazione	Inglese
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Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references (p. 198-205) and index.
Nota di contenuto	CCD manufacturing and operation -- Characterization of charge-coupled devices -- CCD imaging -- Photometry and astrometry -- Spectroscopy with CCDs -- CCDs used in space and at short wavelengths -- CCD reading list -- CCD manufacturers : websites & information -- Some basics of image displays and color images.
Sommario/riassunto	Charge-Coupled Devices (CCDs) are the state-of-the-art detector in many fields of observational science. Updated to include all of the latest developments in CCDs, this second edition of the Handbook of CCD Astronomy is a concise and accessible reference on all practical aspects of using CCDs. Starting with their electronic workings, it discusses their basic characteristics and then gives methods and examples of how to determine these values. While the book focuses on the use of CCDs in professional observational astronomy, advanced amateur astronomers, and researchers in physics, chemistry, medical imaging, and remote sensing will also find it very valuable. Tables of useful and hard-to-find data, key practical equations, and new

exercises round off the book and ensure that it provides an ideal introduction to the practical use of CCDs for graduate students, and a handy reference for more experienced users.
