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Nota di contenuto	Front Cover; Dedication; Contents; Preface; Principal Symbols; Some numerical values of physical and astronomical constants; List of Acronyms; Chapter 1 Properties of Radiation; Chapter 2 Photoelectric Concept; Chapter 3 Concept of Laser; Chapter 4 Photon Detection Process; Chapter 5 Photodetectors; Chapter 6 Charge Transfer Devices; Chapter 7 Photon- Counting Systems; Chapter 8 Radiation Detectors for Infrared Wavelengths; Appendix: Typical Tables; Bibliography; Index; Back Cover
Sommario/riassunto	Interferometric observations need snapshots of very high time resolution of the order of (i) frame integration of about 100 Hz or (ii) photon-recording rates of several megahertz (MHz). Detectors play a key role in astronomical observations, and since the explanation of the photoelectric effect by Albert Einstein, the technology has evolved rather fast. The present-day technology has made it possible to develop large-format complementary metal oxide-semiconductor (CMOS) and charge-coupled device (CCD) array mosaics, orthogonal transfer CCDs, electron-multiplication CCDs, electron-avalanche pho

