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Silicon Radiation Detectors with Three-Dimensional Electrodes (3D Detectors), G. Dalla Betta and A. Zoboli
Cadmium Zinc Telluride Pixel Detectors for Hard X-Ray Astrophysics, F.A. Harrison, W.R. Cook, H. Miyasaka, and R. McLean
Hydrogenated Amorphous Silicon Radiation Detectors, M. Despeisse
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Multicell Geiger-Mode Avalanche Photodiodes: Silicon Photomultipliers, G. Llosa
Hybrid Photodetectors (HPDs) for Single-Photon Detection, A. Fukasawa
High-Resolution CdTe Detectors and Application to Gamma-Ray Imaging, T. Takahashi, S. Watanabe, and S. Ishikawa
Caliste: Microcamera for Hard X-Ray Astronomy, O. Limousin, A. Meuris, O. Gevin, and F. Lugiez
Hybrid Pixel Array Detectors for Photon Science, H. Graafsma
XPAD, a Photon-Counting Imager for X-Ray Applications, P. Pangaud, P. Delpierre, and J.-F. Berar
Ultrafast Electron Beam Tomography, U. Hampel
Compton Imaging: Principles and Practice, C. E. Seifert
Multimodality Imaging with MR/PET and MR/SPECT, T. Farncombe
Hard X-Ray Imaging</p>

Detectors Onboard the Balloon-Borne High-Energy Focusing Telescope,
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Semiconductor Radiation Detection Systems addresses the state-of-the-art in the design of semiconductor detectors and integrated circuit design, in the context of medical imaging using ionizing radiation. It addresses exciting new opportunities in X-ray detection, Computer Tomography (CT), bone dosimetry, and nuclear medicine (PET, SPECT). In addition to medical imaging, the book explores other applications of semiconductor radiation detection systems in security applications such as luggage scanning, dirty bomb detection, and border control. Features a ch
