



## **Radiation Detectors for Medical Imaging (Devices, Circuits, and Systems)**

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# Radiation Detectors for Medical Imaging (Devices, Circuits, and Systems)

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**Radiation Detectors for Medical Imaging** discusses the current state of the art and future prospects of photon-counting detectors for medical imaging applications. Featuring contributions from leading experts and pioneers in their respective fields, this book:

- Describes x-ray spectral imaging detectors based on cadmium zinc telluride (CdZnTe) and cadmium telluride (CdTe) materials
- Presents novel computed tomography (CT) and x-ray clinical applications of photon-counting detectors
- Considers the future use of CT scanners as both an anatomical and a functional modality in areas typically reserved for nuclear medicine techniques
- Addresses pulse pileup, incomplete charge collection, and other phenomena that can degrade the spectral response of photon-counting detectors
- Examines silicon photomultipliers used in single-photon emission computed tomography (SPECT) and positron emission tomography (PET) systems

**Radiation Detectors for Medical Imaging** explores cutting-edge technologies that play a vital role in the detection, diagnosis, and treatment of major human diseases, including heart disease and cancer—the top killers in developed countries.

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