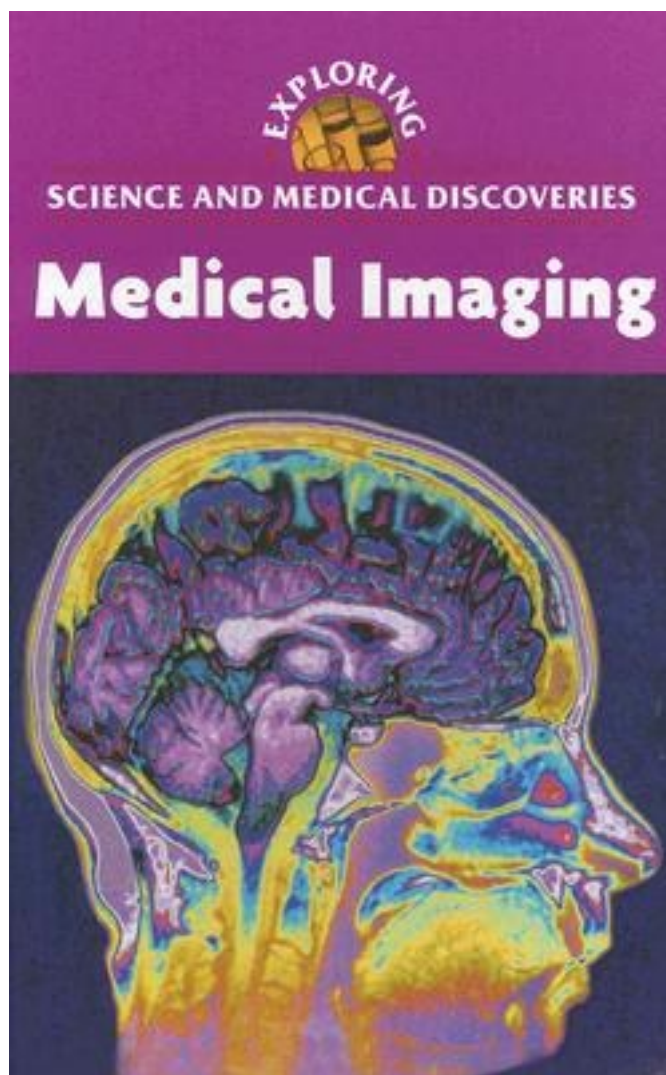


Medical Imaging



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A must-read for anyone working in electronics in the healthcare sector This one-of-a-kind book addresses state-of-the-art integrated circuit design in the context of medical imaging of the human body. It explores new opportunities in ultrasound, computed tomography (CT), magnetic resonance imaging (MRI), nuclear medicine (PET, SPECT), emerging detector technologies, circuit design techniques, new materials, and innovative system approaches. Divided into four clear parts and with contributions from a panel of international experts, Medical Imaging systematically covers: X-ray imaging and computed tomography–X-ray and CT imaging principles; Active Matrix Flat Panel Imagers (AMFPI) for diagnostic medical imaging applications; photon counting and integrating readout circuits; noise coupling in digital X-ray imaging Nuclear medicine–SPECT and PET imaging principles; low-noise electronics for radiation sensors Ultrasound imaging–Electronics for diagnostic ultrasonic imaging Magnetic resonance imaging–Magnetic resonance imaging principles; MRI technology

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