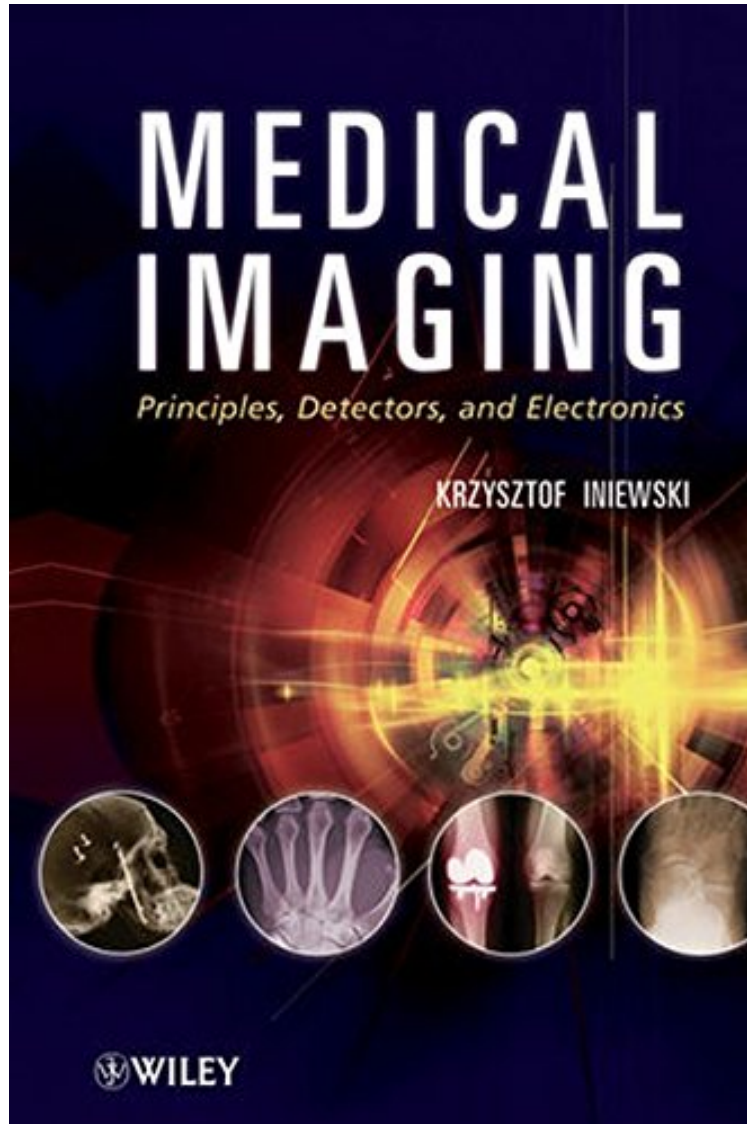


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## Medical Imaging: Principles, Detectors, and Electronics

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0 of 2 people found the following review helpful. Excelente LibroBy Cliente de Este libro es muy actualizado en cuanto a los últimos adelantos tecnológicos relacionados a la instrumentación médica de imagen, su enfoque (desde el punto de vista tecnológico) es muy útil para los ingenieros y técnicos que trabajan en esta materia, o que desean conocer

acerca de la materia. Actualmente estoy usando este libro como texto para clases y lo he encontrado muy útil sobre todo por los gráficos de los equipos.

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

The papers are very readable for serious physicists and electrical engineers who are focusing on electronics present in the health care field, as well as interested computer scientists and medical technicians. (Computing s , August 2009 )  
From the Back Cover 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  
About the Author Krzysztof Iniewski, PhD, manages RD chip development activities at Redlen Technologies. Previously, he was an associate professor in the electrical engineering and computer engineering department of the University of Alberta, where he conducted research on low-power wireless circuits and systems. His research interests are in VLSI circuits for medical and security applications. Dr. Iniewski has published over 100 international journal or conference papers, and holds eighteen international patents.