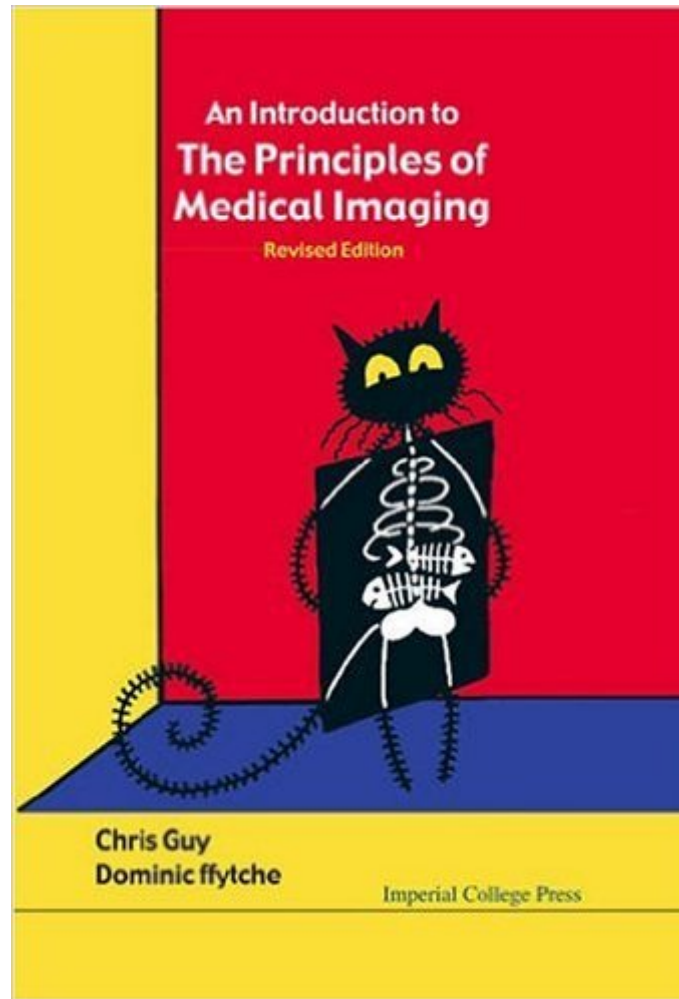


The book was found

Introduction To The Principles Of Medical Imaging



Synopsis

The introduction of X-ray computed tomography (CT) 25 years ago revolutionized medical imaging; X-ray CT itself provided the first clear cross-sectional images of the human body, with substantial contrast between different types of soft tissue. The enduring legacy of CT is, however, the spur that it gave to the subsequent introduction of tomographic imaging techniques into diagnostic nuclear medicine and the extraordinarily rapid development of magnetic resonance imaging (MRI) over this period. This book is a non-mathematical introduction to the principles underlying modern medical imaging, taking tomography as its central theme. The first three chapters cover the general principles of tomography, a survey of the atomic and nuclear physics which underpins modern imaging, and a review of the key issues involved in radiation protection. The subsequent chapters deal in turn with X-ray radiography, gamma imaging, MRI and ultrasound. The clinical role of diagnostic imaging is illustrated in the final chapter through the use of fictional clinical histories. Three appendices provide a more mathematical background to the tomographic method, the principles of mathematical Fourier methods, and the mathematics of MRI. This revised edition includes new introductory sections on the relevant physics of molecules in general, and water, in particular. Every chapter now has a table of key points with cross-references to other sections. Several figures have also been revised. The book is intended to provide a broad introductory background to tomographic imaging for two groups of readers: the physics or engineering undergraduate thinking of specializing in medical physics, and the medical student or clinician using tomographic techniques in research and clinical practice.

Book Information

Hardcover: 420 pages

Publisher: Imperial College Press; REV ed. edition (June 2005)

Language: English

ISBN-10: 1860945023

ISBN-13: 978-1860945021

Product Dimensions: 6.1 x 0.9 x 9.3 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

Average Customer Review: 4.0 out of 5 stars Â Â See all reviews Â (2 customer reviews)

Best Sellers Rank: #1,553,146 in Books (See Top 100 in Books) #47 in Â Books > Textbooks >

Medicine & Health Sciences > Reference > Instruments & Supplies #59 in Â Books > Medical

Books > Medicine > Internal Medicine > Radiology > Nuclear Medicine #85 in Â Books > Medical

Customer Reviews

Really good book for people who want to know basics about medical imaging and how the images are actually acquired with different medical devices like CT, MRI and X-ray. I bought this book for a course and I got a good grade so I would recommend this to others.

Nice book in a good state. It take only a little bit time to receive it, because we live in Germany.

[Download to continue reading...](#)

Principles of Dental Imaging (PRINCIPLES OF DENTAL IMAGING (LANGLAND)) Medical Terminology: Medical Terminology Made Easy: Breakdown the Language of Medicine and Quickly Build Your Medical Vocabulary (Medical Terminology, Nursing School, Medical Books) Introduction to the Principles of Medical Imaging The Physics of Medical Imaging (Medical Science Series) American Medical Association Complete Medical Encyclopedia (American Medical Association (Ama) Complete Medical Encyclopedia) Medical Imaging Signals and Systems (2nd Edition) Information Processing in Medical Imaging: Proceedings of the 8th conference, Brussels, 29 August - 2 September 1983 (Proceedings of the Eighth Conference, Brussels, 29 August-2) Mathematics and Computer Science in Medical Imaging (Nato a S I Series Series III, Computer and Systems Sciences) Ferri's Best Test: A Practical Guide to Clinical Laboratory Medicine and Diagnostic Imaging, 3e (Ferri's Medical Solutions) Radiology and Imaging of the Colon (Medical Radiology) The Chemistry of Contrast Agents in Medical Magnetic Resonance Imaging Principles of Dental Imaging Medical School Admission Requirements (MSAR) 2010-2011: The Most Authoritative Guide to U.S. and Canadian Medical Schools (Medical School Admission Requirements, United States and Canada) Medical Terminology: Medical Terminology Made Easy: Breakdown the Language of Medicine and Quickly Build Your Medical Vocabulary Pharmacology Study Guide: drug classification, indications, reactions, and examples, Pharmacodynamics, Pharmacokinetics, Medical Chemistry & more for medical, ... nursing, & dental students (Mobi Medical) Non-Medical Influences upon Medical Decision-Making and Referral Behavior: An Annotated Bibliography (Bibliographies and Indexes in Medical Studies) Medical Terminology Mastery: Proven Memory Techniques to Help Pre Med School & Nursing Course Students Learn How to Creatively Remember Medical Terms to ... Memory Now | Medical Students Book 1) The Complete Works of Herbert Spencer: The Principles of Psychology, The Principles of Philosophy, First Principles and More (6 Books With Active Table of Contents) A Practical Introduction to Computer Vision with OpenCV (Wiley-IS&T

Series in Imaging Science and Technology) Netter's Introduction to Imaging: with Student Consult
Access, 1e (Netter Basic Science)

[Dmca](#)