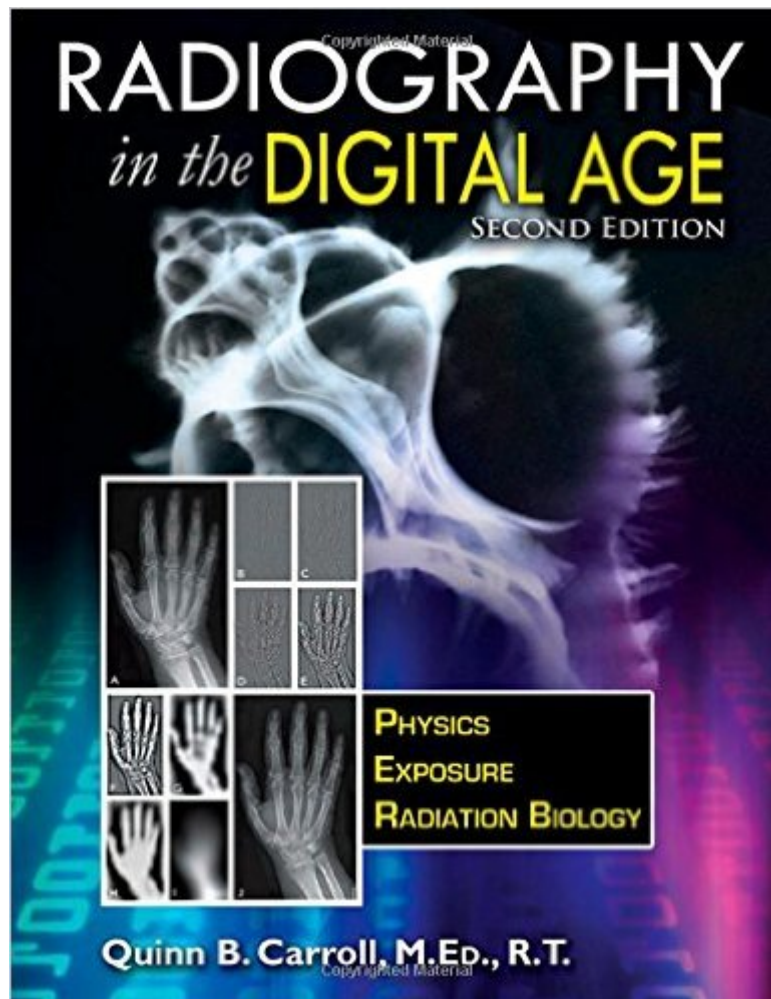


The book was found

Radiography In The Digital Age: Physics - Exposure - Radiation Biology (2nd Ed.)



Synopsis

Long overdue, this new work provides just the right focus and scope for the practice of radiography in this digital age, covering four entire courses in a typical radiography program. The entire emphasis of foundational physics has been adjusted in order to properly support the specific information on digital imaging that will follow. The paradigm shift in imaging terminology is reflected by the careful phrasing of concepts, accurate descriptions and clear illustrations throughout the book. There are 713 illustrations, including meticulous color line drawings, numerous photographs and stark radiographs. The two chapters on digital image processing alone include 60 beautifully executed illustrations. Foundational chapters on math and basic physics maintain a focus on energy physics. Obsolete and extraneous material has been eliminated, while concepts supporting digital imaging are more thoroughly discussed. All discussion of electricity is limited to only those concepts, which bear directly upon the production of x-rays in the x-ray tube. Following is a full discussion of the x-ray beam and its interactions within the patient, the production and characteristics of subject contrast, and an emphasis on the practical application of radiographic technique. This is conventional information, but the terminology and descriptions used have been adapted with great care to the digital environment. No fewer than ten chapters are devoted directly to digital imaging, providing extensive coverage of the physics of digital image capture, digital processing techniques, and the practical applications of both CR and DR. Image display systems are brought up to date with the physics of LCD screens and of electronic images. Chapters on Radiation Biology and Protection include an unflinching look at current issues and radiation protection in practice. The radiation biology is clearly presented with numerous lucid illustrations, and a balanced perspective on radiation and its medical use is developed. To reinforce mathematical concepts for the student, dozens of practice exercises are strategically dispersed throughout the chapters, with answer keys provided in the appendix. Extensive review questions at the end of each chapter give a thorough, comprehensive review of the material learned. The Instructor Resources for Radiography in the Digital Age, available on disc, includes the answer key for all chapter review questions and a bank of over 1500 multiple-choice questions for instructors use. It also includes 35 laboratory exercises, including 15 that demonstrate the applications of CR equipment.

Book Information

Hardcover: 888 pages

Publisher: Charles C Thomas Pub Ltd; 2 edition (August 18, 2014)

Language: English

ISBN-10: 0398080968

ISBN-13: 978-0398080969

Product Dimensions: 8.7 x 1.8 x 11.2 inches

Shipping Weight: 6.8 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars Â Â See all reviews Â (1 customer review)

Best Sellers Rank: #131,026 in Books (See Top 100 in Books) #18 in Â Books > Textbooks > Medicine & Health Sciences > Medicine > Clinical > Radiology & Nuclear Medicine > Diagnostic Imaging #27 in Â Books > Medical Books > Medicine > Internal Medicine > Radiology > Diagnostic Imaging #60 in Â Books > Textbooks > Medicine & Health Sciences > Medicine > Diagnostics & Labs

Customer Reviews

Very comprehensive.

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

Radiography In the Digital Age: Physics - Exposure - Radiation Biology (2nd Ed.) Exercises in Oral Radiography Techniques: A Laboratory Manual for Essentials of Dental Radiography (3rd Edition) (Thomson, Exercises in Oral Radiography Techniques) Radiation Therapy Techniques and Treatment Planning for Breast Cancer (Practical Guides in Radiation Oncology) Radiation Therapy Study Guide: A Radiation Therapist's Review Workbook for Radiation Protection in Medical Radiography, 7e Radiation Protection in Medical Radiography, 7e Student Workbook for Radiography in the Digital Age - 2nd Edition Mosby's Comprehensive Review of Radiography: The Complete Study Guide and Career Planner, 6e (Mosby's Complete Review of Radiography) Mosby's Comprehensive Review of Radiography: The Complete Study Guide and Career Planner, 5e (Mosby's Complete Review of Radiography) Photography Exposure: 9 Secrets to Master the Art of Photography Exposure in 24h or Less Radiographic Imaging and Exposure, 4e (Faubert, Radiographic Imaging & Exposure) Exposure Made Easy: Use Exposure to Create Captivating Images in Any Light Beginner's Digital SLR Crash Course: Complete guide to mastering digital photography basics, understanding exposure, and taking better pictures. Radiation Protection and Dosimetry: An Introduction to Health Physics The Feynman Lectures on Physics, Vol. I: The New Millennium Edition: Mainly Mechanics, Radiation, and Heat (Volume 1) Cryptocurrency: Guide To Digital Currency: Digital Coin Wallets With Bitcoin, Dogecoin, Litecoin, Speedcoin, Feathercoin, Fedoracoin, Infinitecoin, and ... Digital Wallets, Digital Coins Book 1) Physics for Scientists and Engineers with Modern Physics: Volume II (3rd Edition) (Physics for Scientists & Engineers) Head

First Physics: A learner's companion to mechanics and practical physics (AP Physics B - Advanced Placement) Digital Radiography and PACS, 2e Digital Photography Mastery: 9 Tips to Master Technical Aspects Including ISO, Exposure, Metering & Shutter Speed

[Dmca](#)