

# MEDICAL PHYSICS

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Digital Radiography in Practice, 2<sup>nd</sup> Ed. Quinn Carroll. Springfield, IL: Charles C. Thomas Publisher, 2023. ISBN 9780398094126  
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## **DESCRIPTION**

This is the second edition of Digital Radiography in Practice; the first edition was published in 2019. This book is meant as a textbook for a single course in radiography geared towards radiography students. There are 15 short chapters, the longest being approximately 20 pages, which would easily act as supplementary and reference material for a standard 16-week course. The book starts with the history and basics of the digital radiograph, then proceeds in a coherent manner through the process of acquiring an image, processing, displaying and storage of the digital radiograph.

## **PURPOSE**

This book is designed to cover a single course, or section, in digital radiography. The focus on a single modality provides an accurate and concise description of digital radiographic imaging.

## **AUDIENCE**

The author wrote this book with the intent of providing radiography programs with a resource for the practical aspects of digital radiography. He has succeeded in taking this complex topic and making it more digestible for the average student. This book would also be very helpful in enhancing the delivery of digital radiography to a diagnostic medical physics imaging course. The author is a

professional educator and a radiologic technologist with years of experience. He has also utilized the services of excellent reviewers and consultants to ensure the accuracy and relevancy of this incredibly important topic.

### **CONTENT / FEATURES**

The text is written in a professional, but easily understandable format, perfect for an introduction to the topic for students. There are plenty of images and tables to help explain the concepts. The approach of focusing on the digital image and not necessarily the obtaining of radiographic images, makes this a unique and welcome addition to a radiographic imaging course. One of the most useful components is the comprehensive glossary of digital radiographic terms. The questions at the end of each chapter are perfect for student review, although I do wish there was an answer section at the end for student self-assessment. There are ancillary resources that I did not have access to such as digital resources for the instructor, PowerPoint slides, and a student workbook.

### **ASSESSMENT / COMPARISON**

This book is a great resource for an overview of practical digital radiography. As the author points out, this text is meant as a quick, but comprehensive, overview of digital radiography. For a more in-depth look at the topic, there are other texts (including Radiography in the Digital Age by the same author) that cover all aspects of radiography. In addition to being an incredibly helpful resource for radiology technologist students, this text could be an excellent resource for medical physicists, particularly in an introduction to digital imaging graduate course.

### **Book Reviewer Biography**

Daniel J. Sandoval, PhD DABR CIIP is an Assistant Professor and Associate Program Director for the Imaging Physics Residency at the University of New Mexico. He is the primary instructor for the Fundamentals of Medical Imaging

course and laboratory. His expertise includes radiography, informatics, quality control and optimization of radiographic systems.