



Radiation Exposure and Image Quality in X-Ray Diagnostic Radiology: Physical Principles and Clinical Applications

Horst Aichinger, Joachim Dierker, Sigrid Joite-Barfuß, Manfred Säbel

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Diagnostic X-rays are the largest contributor to radiation exposure. Protecting the patient from radiation is a major aim of modern health policy, and an understanding of the relationship between radiation dose and image quality is pivotal to optimising medical diagnostic radiology. In this volume the data provided for exploring these concerns are partly based on X-ray spectra, measured on diagnostic X-ray tube assemblies, and are supplemented by the results of measurements on phantoms and simulation calculations. X-ray mammography data makes up the main part of this book. The book also features an extremely useful CD-ROM containing a comprehensive database in the form of Excel-files.

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