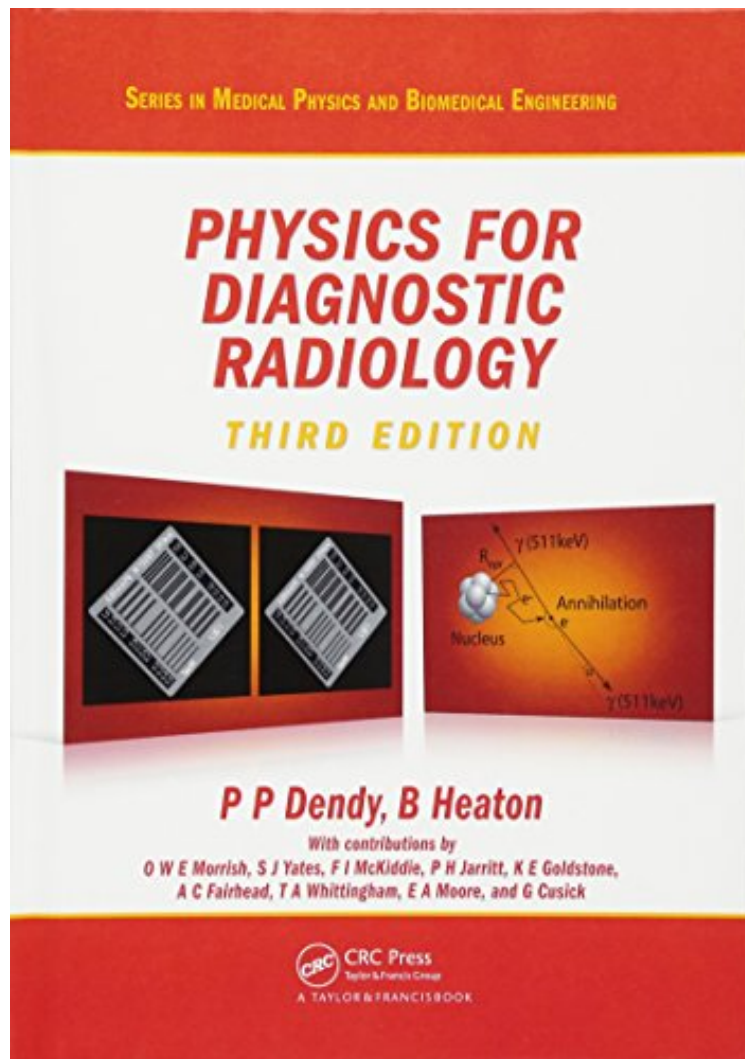


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## Physics for Diagnostic Radiology, Third Edition (Series in Medical Physics and Biomedical Engineering)

*Philip Palin Dendy, Brian Heaton*  
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**Philip Palin Dendy, Brian Heaton : Physics for Diagnostic Radiology, Third Edition (Series in Medical Physics and Biomedical Engineering)** before purchasing it in order to gage whether or not it would be worth my time, and all praised Physics for Diagnostic Radiology, Third Edition (Series in Medical Physics and Biomedical Engineering):

With every chapter revised and updated, Physics for Diagnostic Radiology, Third Edition continues to emphasise the

importance of physics education as a critical component of radiology training. This bestselling text helps readers understand how various imaging techniques work, from planar analogue and digital radiology to computed tomography (CT), nuclear medicine, and positron emission tomography (PET) to ultrasound imaging and magnetic resonance imaging (MRI). New to the Third Edition Material on digital receptors Emphasis on the differences between analogue and digital images Coverage of multi-slice CT and three-dimensional resolution, dual energy applications, and cone beam CT Special radiographic techniques, including subtraction techniques and interventional radiology New chapter on PET, with discussion of multi-modality imaging (PET/CT) Additional material on radiation doses and risks to patients New chapter covering picture archiving and communication system (PACS), teleradiology, networks, archiving, and related factors A summary of the main teaching points at the beginning of each chapter After an introductory chapter on basic physics, the book follows the x-ray imaging process: production of x-rays, interaction with the patient, radiation measurement, the image receptor, the radiological image, and image quality assessment. It then covers more advanced x-ray techniques as well as imaging with radioactive materials. The text also focuses on radiobiology, risk and radiation protection, and imaging with non-ionising radiation. The final chapter discusses data handling in a modern, electronic radiology department.

" the book presents comprehensive and up-to-date information even beyond what might be expected from the title of the book. It contains the medical physics of all imaging modalities available at a larger department of radiology."Hans Zoetelief, Radiation Protection Dosimetry, Vol. 154, 2013 "This is the third edition of a well-established and popular textbook on physics of diagnostic radiology. It is a textbook written in a clear and concise style, supported by excellent illustrations. The textbook describes recent state-of-the-art advances in medical imaging in a way radiologists, radiographers and medical physicists will find easy to understand. It is internationally recognised as one of the key textbooks in its field."Dr. Keith Faulkner, North East Strategic Health Authority, UK Praise for the Second Edition"One of the most useful features is the amount of review material. A series of discussion questions are given at the end of each chapter and six to fourteen multiple-choice questions per chapter are listed in an appendix, with an answer key for all questions and explanatory footnotes for some On the whole, I found the material to be authoritative, comprehensive, and accurate."Doody Online s"The book is well written and I recommend it not only to radiologists in training, but also to experienced radiologists and x-ray technicians who would like to update their knowledge in the physics of diagnostic radiology."Lars JanglandAbout the AuthorAddenbrookes NHS Trust, Cambridge, UK Aberdeen Radiation Protection Services, UK University of Wisconsin, Madison, USA King's College London, Strand, UK University of Minnesota, Minneapolis, USA University of Malaya, Kuala Lumpur, Malaysia