Ionathon A. Nye (Editor). Radiologic Physics Taught Through Cases

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Physics is one of the most difficult topics for many who intend to pass the American Board of Radiology (ABR) core and certifying exams. The book “Radiologic Physics Taught Through Cases” may result useful for all residents and young radiologists interested to acquire this educational and professional qualification.

The editor of this agile paperback of 168 pages, including 231 illustrations, is Ionathon A. Nye, Associate Professor of Radiology at the Emory University School of Medicine, who recruited experts in the different specific fields to present and explain the different topics, with the help of many illustrations, also preparing questions and answers for a self-examination. The book includes complimentary access to a digital copy on <https://medone.thieme.com>.

More precisely, the volume is organized in the following 7 chapters: (1) Fluoroscopy, (2) Mammography, (3) Computed Tomography, (4) Magnetic Resonance Imaging, (5) Nuclear Medicine, (6) Ultrasound Imaging, (7) Image Processing.

Each chapter features 10 succinct case-based topics intended to quickly convey information. The publication responds to the logic of a *reader-friendly format, having the difficult task of simplifying and make learning complex physics concepts. Each of the 7 specific chapters has a standard organization, starting from a general introduction, followed*

by case background illustrated by high-quality images. Findings and a brief explanation of the physical factors underlying the image’s formation and displayed contrast are then included. Dosimetric and radiation safety information is also added, together with a concise bibliography suggesting further publications in case a deepening and/or a better understanding of one specific topic is requested.

As reported above, a self-evaluation approach, organized as multiple choice format, is utilized including review questions at the end of each chapter, with correct answers in the last pages of the book. When needed, i.e., mainly in chapter 6 concerning ultrasounds, a further explanation is added with suggested references to better understand the right response. An accurate analytical index is also present.

For the reasons reported above, this book is mainly suggested to residents interested to acquire the ABR. Furthermore, either young and expert radiologists or nuclear physicians may take advantage through a fast and effective refreshment of the main issues of physics involved in their practice in diagnostic imaging.

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