Essentials of Radiographic Physics and Imaging, 2e

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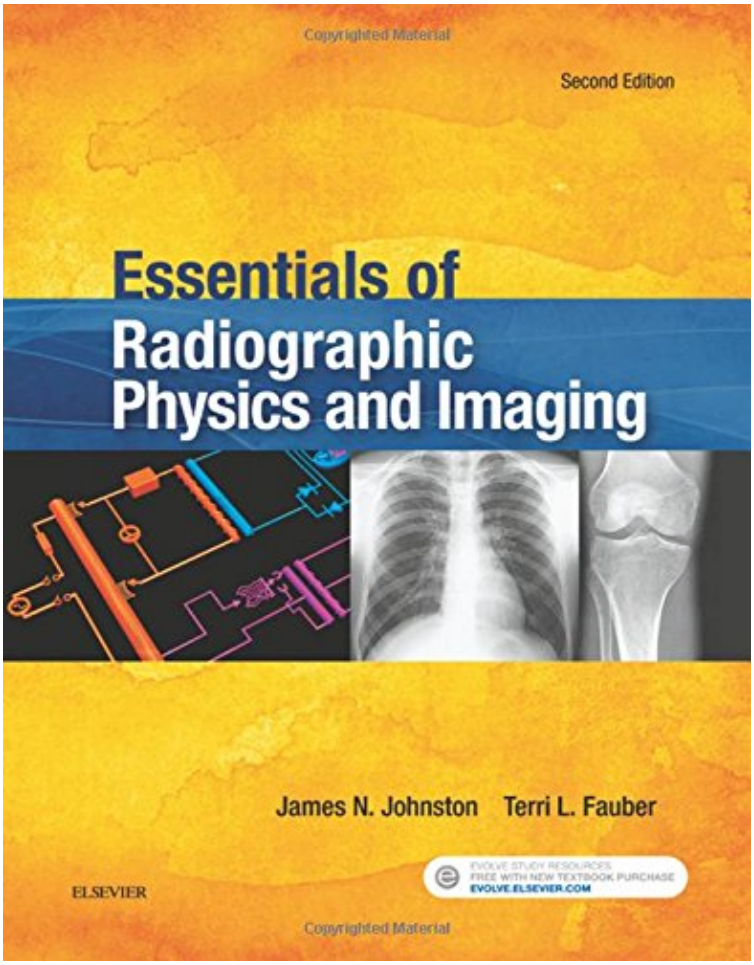

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James Johnston Ph.D. R.T.(R)(CV), Terri L. Fauber EdD RT(R)(M) : Essentials of Radiographic Physics and Imaging, 2e before purchasing it in order to gage whether or not it would be worth my time, and all praised Essentials of Radiographic Physics and Imaging, 2e:

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helpful. Easy to understandBy Pen NameGreat book for intro to radiographic physics. Easy to read and understand. Also, the chapters are short and not overwhelming which is helpful for a first physics class.0 of 0 people found the following review helpful. The best book that I ever purchased for my purposeBy MarshallThe best book that I ever purchased for my purpose! Thank you for my order. It was fast and the product was exactly what I wanted. I look forward to ordering from you again! Marshall

Written by radiographers for radiographers, Essentials of Radiographic Physics and Imaging, 2nd Edition follows the ASRT recommended curriculum and focuses on what the radiographer needs to understand to safely and competently perform radiographic examinations. This comprehensive radiologic physics and imaging text links the two subjects together so that you understand how they relate to each other and to clinical practice. Prepare for success on the ARRT exam and the job with just the right amount of information on radiation production and characteristics, imaging equipment, film screen image acquisition and processing, digital image acquisition and display, image analysis, and the basic principles of computed tomography.345 photos and line drawings encourage you to visualize important concepts.Strong pedagogy, including chapter objectives, key terms, outlines, bulleted chapter summaries, and specialty boxes, help you organize information and focus on what is most important in each chapter. Make the Physics Connection and Make the Imaging Connection boxes link physics and imaging concepts so you fully appreciate the importance of both subjects. Educator resources on Evolve, including lesson plans, an image collection, PowerPoint presentations, and a test bank, provide additional resources for instructors to teach the topics presented in the text.Theory to Practice boxes succinctly explain the application of concepts and describe how to use the information in clinical practice. Critical Concept boxes further explain and emphasize key points in the chapters. Math Application boxes use examples to show how mathematical concepts and formulas are applied in the clinical setting.An emphasis on the practical information highlights just what you need to know to ace the ARRT exam and become a competent practitioner.Numerous critique exercises teach you how to evaluate the quality of radiographic images and determine which factors produce poor images.A glossary of key terms serves as a handy reference.NEW! Updated content reflects the newest curriculum standards outlined by the ARRT and ASRT, providing you with the information you need to pass the boards. NEW! Critical Thinking Questions at the end of every chapter offer opportunity for review and greater challenge.NEW! Chapter Review Questions at the end of every chapter allow you to evaluate how well you have mastered the material in each chapter.NEW! Increased coverage of radiation protection principles helps you understand the ethical obligations to minimize radiation dosages, shielding, time and distance, how to limit the field of exposure and what that does to minimize dose, and technical factors and how they represent the quantity and quality of radiation.NEW! Conversion examples and sample math problems give you the practice needed to understand complex concepts. NEW! More images highlighting key concepts help you visualize the material. NEW! Expansion of digital image coverage and ample discussion on differentiating between digital and film ensures you are prepared to succeed on your exams. NEW! All-new section on manual vs. AEC use in Chapter 13 keeps you in the know. NEW and UPDATED! Expanded digital fluoroscopy section, including up-to-date information on LCD and Plasma displays, familiarizes you with the equipment you will encounter. NEW! Online chapter quizzes on Evolve feature 5-10 questions each and reinforce key concepts. NEW! PowerPoint presentations with new lecture notes on Evolve and in-depth information in the notes section of each slide make presenting quick and easy for instructors.