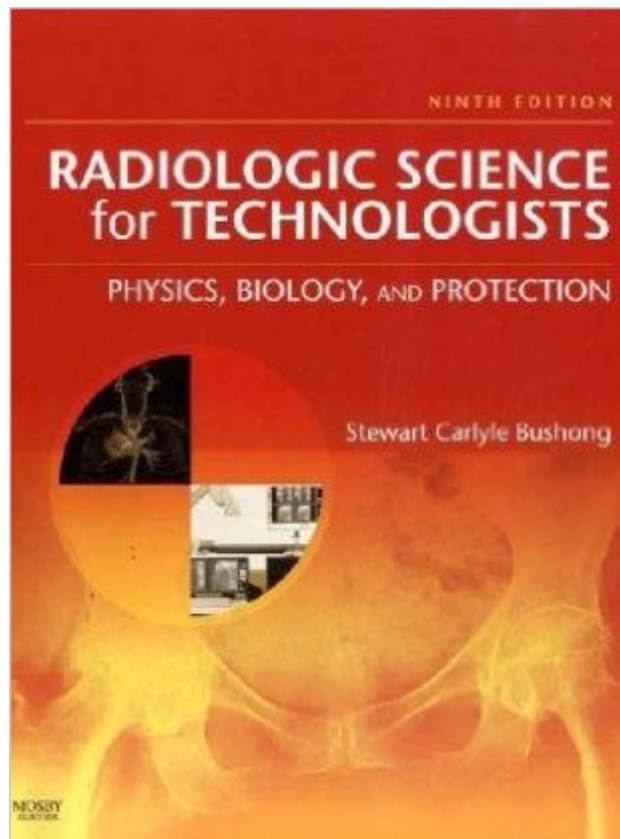


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# Radiologic Science For Technologists: Physics, Biology, And Protection, 9e



## Synopsis

Develop the skills and knowledge to make informed decisions regarding technical factors and diagnostic imaging quality with this highly detailed, vibrantly illustrated, full-color resource. Updated with the latest advances in radiologic science, this new edition addresses a broad range of radiologic disciplines, providing a strong foundation in the study and practice of radiologic physics, imaging, radiobiology, radiation protection, and more. Unique learning tools strengthen your understanding of key concepts, and challenging review exercises help you prepare for success on the ARRT certification exam and in the workplace. Quick-reference guides printed on colored end sheets provide easy access to frequently used formulas, conversion tables, abbreviations, and more. Special Math Formulas boxes and Important Concepts boxes emphasize key chapter content. A full-color design highlights important information and clarifies concepts. Objectives, key terms, outlines, introductions, and summaries for every chapter help you organize material and identify vital information. Challenge Questions at the end of each chapter test your understanding of terms, concepts, and formulas with a variety of definition exercises, short answer questions, and calculations. Significant chapter updates help you ensure success on the ARRT exam and keep you current with the latest practices in mammography, interventional radiology, multislice spiral computed tomography, and radiation protection. A new chapter on The Digital Image identifies the benefits and challenges of working with digital imaging and familiarizes you with technology you'll encounter in the clinical setting. A new Viewing the Digital Image chapter guides you through the most up-to-date viewing practices to ensure an accurate understanding. An expanded glossary introduces important new terms common to today's practice settings.

## Book Information

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## Customer Reviews

This book has an excellent review for basic math, scientific notation and basic concepts of radiation science. The difficulty that I have experienced with this book is the numerous mistakes (often pointed out by the students) as well as the minimal explanations to the problems presented. This should not be an exclusive text for radiology students but is a good supplemental text because it does have a good accompanying workbook.

I just finished a college course in Radiologic Physics using this book. Each chapter's information and formulas build upon the previous chapter, and I found the flow of information easy to follow. The examples problems were helpful (sometimes) to make the author's point. But, that's where the problem lies with this book. The example problems had too many mathematical mistakes or misprints. In one chapter the author kept switching the variable "L" with "1" within the same problem. Most other problems were either missing steps or the math was just wrong. I would spend twenty minutes on an example trying to figure out how they got an answer and finally would either just move on or come up with my own answer and verify it with the instructor the next class. For a book in its 9th Ed., someone should have caught these mistakes long ago. Each chapter had at least two, to as many as six mistakes. While there is good information in this book and great diagrams and charts as to how X-rays are produced, the example problems make this book average instead of good. (Definitely buy the workbook if you purchase this book).

Ok text book, but needs an update in the worst way. Too much film screen and not enough digital. Film screen is virtually history now, in fact there are almost no questions on the registry regarding film screen. I know Mr. Bushong is predisposed with other life issues, but if they don't get with the program, some other text book will knock this off the pedestal

This is not the main book that I learn out of in class, but when it comes to studying it's another source to look into. In every chapter there are small boxes at the end of each subtitle that sums it up into a sentence or two of what the key information is.

While it is a good book, it needs considerable review by its author and editors because it is riddled with mathematical errors and mistakes. There are several areas in the book that contradict other areas in the book.

Bushong covers the necessary information, but I find the organization and emphasis used in this edition to be severely lacking. All that said, there is a newer edition out that perhaps has corrected these flaws.

The 10th edition (2012) of this excellently written but error prone Radiologic Science textbook is currently (2/23/2012) available for pre-order. My hope is that the editors have taken the necessary time to correct any errors in this edition's math and physics formulas and examples. It is also my hope that digital technology is presented more prominently, throughout the text, in this new edition. That said, the new edition should provide an improved educational experience for Radiology students beginning with the summer and fall 2012 semesters.

I paid a good amount for this older edition book and was at first happy with the condition of the book. There was a sticker on the front and some markings...no big deal. A couple weeks into class and I realize there are entire sections removed. chunks of 10 pages completely gone! Not happy with this purchase at all.

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