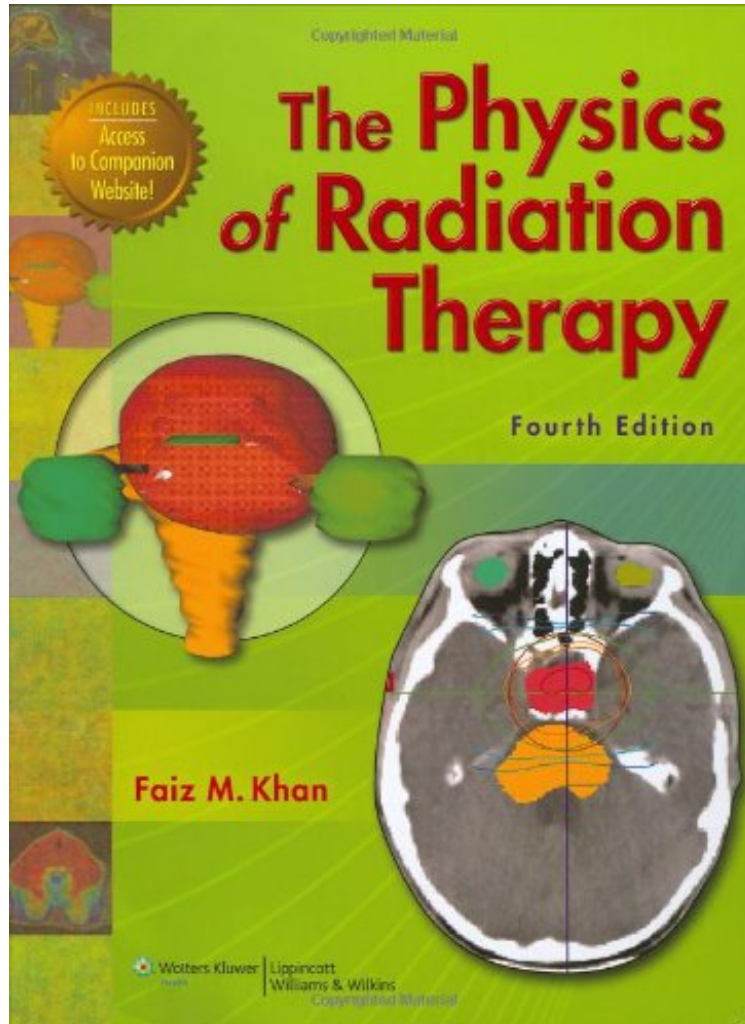


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# The Physics of Radiation Therapy

Faiz M. Khan PhD

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#886789 in Books 2009-05-15 Original language: English PDF # 1 1.00 x 8.50 x 11.10l, 3.60 #File Name: 0781788560592 pages | File size: 30.Mb

**Faiz M. Khan PhD : The Physics of Radiation Therapy** before purchasing it in order to gauge whether or not it would be worth my time, and all praised The Physics of Radiation Therapy:

0 of 0 people found the following review helpful. Eh...By HHughes Lots of people don't like this book, but I find it pretty easy to understand, and it really covers what a resident in rad onc needs to know. You don't need to go into every little detail (we are all too busy), but even just reading the captions to the illustrations gives you a good overview. Update after 2 years of using the book. It really isn't bad, a lot of major concepts are presented cogently. But it has some major problems (remember, this is a textbook) that after 2 year of use are forcing me to take off one star (now 3 instead of 4). 1. There are virtually no problems to solve. The ones that are presented have no explanation of the thought process whatsoever. Most therapeutic radiation practitioners must be adept at calculations - to not have

examples and practice problems in a textbook is a major flaw.<sup>2</sup> The book is indexed very poorly. As I was reading the book, I was creating my own index to supplement the one provided in the book. Some of the words and phrases NOT included in the index are: kerma, penumbra, effective SSD, flattening filter, etc. etc.<sup>3</sup> Some of the complex topics are presented in a very cursory manner - as if the author got tired writing that chapter and stopped after the introduction. Bottom line: I would still buy this book, but it's not awesome.<sup>2</sup> of 2 people found the following review helpful. Good TextBy EmanHaviIt is important to note that one textbook will not be able to fully explain every topic in fine detail. This textbook used in conjunction with others serves as a good platform to build a solid foundation of understanding. During my classes, I thought the author failed to adequately explain the use or derivation of formulas. Not until I began re-reading all my texts through did I notice that many of those longer equations that had no prelude were in fact fairly obvious if you knew the basics. I think this text is worth having because it addresses a wide variety of topics in therapy and poses some very very interesting questions. One such question I love is the PDD graphed from tissue-bone-tissue v tissue-lung-tissue and proving why the graph looks the way it does. Understanding the graph is far more difficult than memorizing how it appears. I stress not to rely on a single resource for preparing for your tests, but this text is a great addition to your library and will certainly help. When equations arise from out of nowhere, derive them yourself. The effort will pay dividends.<sup>0</sup> of 0 people found the following review helpful. Great book for the Medical Physics studentBy A. MatteraI bought the new (4th) edition, having already read (and liked) the 3rd. For a physicist, the way Dr. Khan shows the concepts of Radiotherapy is very clear and he goes enough in depth (for every typical Radiation Therapy university course). The main differences (with respect to the previous edition) are the brand-new graphics (with colour tables and summaries at the end of each chapter), some updates in the new techniques of 3D-CRT and IMRT and new chapters about IGRT and Hadron Therapy. The first chapters are the same (and some sentences sound quite old-fashioned and outmoded, nowadays); and also the (very) few mistyping errors found in the 3rd edition (sometimes also in the equations/graphs) have not been corrected. Some pictures are not referenced correctly. But, despite these comments, the book is great: someone described it as the "Bible" of Radiation Therapy and I definitely agree. To Medical Physics students, it gives a thorough introduction to principles and applications of Radiation Therapy.

Dr. Khan's classic textbook on radiation oncology physics is now in its thoroughly revised and updated Fourth Edition. It provides the entire radiation therapy team—radiation oncologists, medical physicists, dosimetrists, and radiation therapists—with a thorough understanding of the physics and practical clinical applications of advanced radiation therapy technologies, including 3D-CRT, stereotactic radiotherapy, HDR, IMRT, IGRT, and proton beam therapy. These technologies are discussed along with the physical concepts underlying treatment planning, treatment delivery, and dosimetry. This Fourth Edition includes brand-new chapters on image-guided radiation therapy (IGRT) and proton beam therapy. Other chapters have been revised to incorporate the most recent developments in the field. This edition also features more than 100 full-color illustrations throughout. A companion Website will offer the fully searchable text and an image bank.