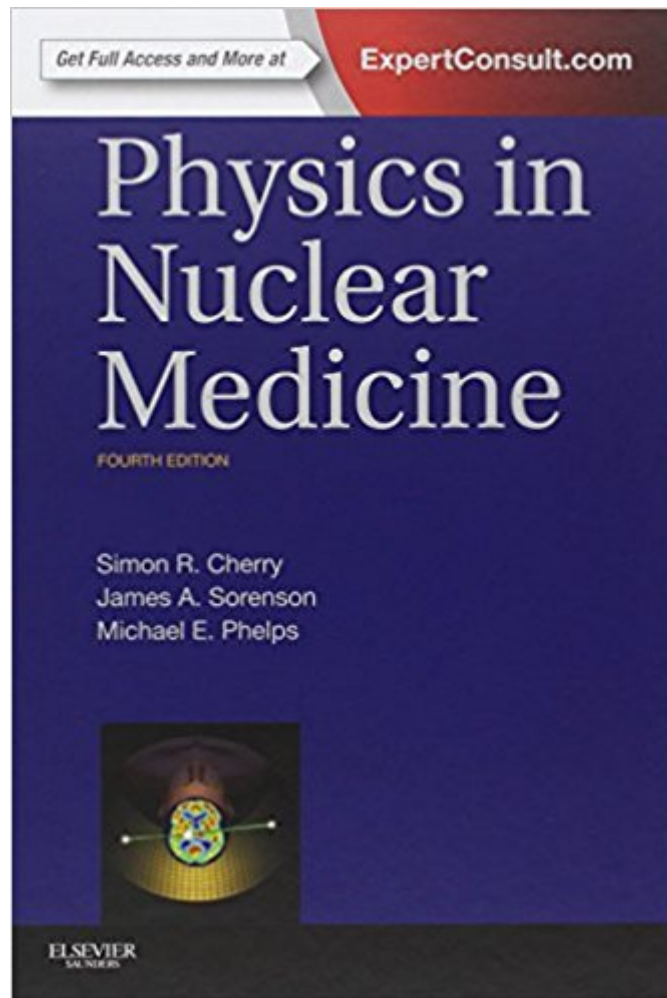




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# Physics In Nuclear Medicine, 4e



## Synopsis

Physics in Nuclear Medicine - by Drs. Simon R. Cherry, James A. Sorenson, and Michael E. Phelps - provides current, comprehensive guidance on the physics underlying modern nuclear medicine and imaging using radioactively labeled tracers. This revised and updated fourth edition features a new full-color layout, as well as the latest information on instrumentation and technology. Stay current on crucial developments in hybrid imaging (PET/CT and SPECT/CT), and small animal imaging, and benefit from the new section on tracer kinetic modeling in neuroreceptor imaging. What's more, you can reinforce your understanding with graphical animations online at [www.expertconsult.com](http://www.expertconsult.com), along with the fully searchable text and calculation tools. Master the physics of nuclear medicine with thorough explanations of analytic equations and illustrative graphs to make them accessible. Discover the technologies used in state-of-the-art nuclear medicine imaging systems Fully grasp the process of emission computed tomography with advanced mathematical concepts presented in the appendices. Utilize the extensive data in the day-to-day practice of nuclear medicine practice and research. Tap into the expertise of Dr. Simon Cherry, who contributes his cutting-edge knowledge in nuclear medicine instrumentation. Stay current on the latest developments in nuclear medicine technology and methods New sections to learn about hybrid imaging (PET/CT and SPECT/CT) and small animal imaging. View graphical animations online at [www.expertconsult.com](http://www.expertconsult.com), where you can also access the fully searchable text and calculation tools. Get a better view of images and line art and find information more easily thanks to a brand-new, full-color layout. The perfect reference or textbook to comprehensively review physics principles in nuclear medicine.

## Book Information

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## Customer Reviews

Review of the third edition from Radiology by RSNA- "This new edition of Physics in Nuclear Medicine is organized well and written clearly. It accomplishes the authors' goal of providing a single volume that serves as both a textbook for radiology residents, scientists, and technologists and a reference for physicians and scientists in related fields. Overall, the authors have done an excellent job of elucidating the expanding and complex role of physics principles in nuclear medicine." Reviewed by Joseph Kalen, PhD 'This is the fourth edition in the series which continues to address the main themes of describing Physics theory in Nuclear Medicine...The book continues to provide good introduction to Physics of Nuclear Medicine, making it suitable for...mainly postgraduate students, but is also a good reference for undergraduates in a scientific field. The book itself is easy to follow and read with the inclusion of numerous questions/answers and examples scattered throughout each chapter...useful for revision. The organisation of the text and paragraphing makes it reader friendly and inviting.' Radiography, June 2012 "This classic text on nuclear medicine physics, now in it's fourth edition, continues to build on the success of the previous editions...The text is well written and the plentiful illustrations are clear and well placed to aid understanding of the physical concepts. The authors have made a tremendous effort into making physics accessible to non-physicists...All in all, this new edition of the book continues to cement its position as the definitive entry text for nuclear medicine physics. It is comprehensive, yet easy to read and belongs on the bookshelves of anyone whose work involves using radionuclides in medicine." RAD, December 2012 "Like its predecessors, this edition is a comprehensive, authoritative, and clearly written didactic book on the physics and technology of nuclear medicine. Dr. Cherry and his coauthors convey even complex mathematical subject matter in a style understandable to nonphysicists. Moreover, they are able to relate the quality and information content of nuclear medicine images to underlying physical principles in a generally understandable manner. It deservedly remains THE standard for introductory textbooks on nuclear medicine physics and instrumentation." - Pat B Zanzonico, PhD(Memorial Sloan-Kettering Cancer Center) Doody 4 star rating!

This is a great addition to any library dealing with nuke med.... If one really wants to get a grasp on what makes things tick... it is a great book. I have found this to be a great refresher for my

experience in nuclear engineering and nuclear medicine. For those in residency in Nuclear Medicine, buy it and learn from it.

This is one of the greatest introductory physics books available for nuclear medicine. The concepts are explained very clearly with color illustrations. I highly recommend it as a first introductory physics text for those new to the field of nuclear medicine.

I'm PhD student doing SPECT research. This book is THE best I ever used so far. It is crystal clear about every concept it introduces. The writing is simply an art -- holding back on deep nuclear physics that I don't need, and meantime giving enough information for reader to have a complete picture and understanding. I'll say if you are a medical physics student or a graduate student who is doing nuclear medicine research, this book is THE perfect choice. P.S. I also have the second edition of this book, which was also very well written. However, due to the development of nuclear medicine in recent 20 years, the fourth edition indeed adds on a lot of invaluable information.

I'm majoring in Nuclear Medicine and I wanted a book that wasn't water-down to the layman or made for someone who is in a masters program. This is a great book to get this information you need and that is applicable to the field. It is also good in that it's up-to-date, which is important in this ever-evolving field. Books published ten years ago are sorely out of date.

It's a nice text to cover the general of the nuclear medicine. There is no fancy math derivation or super long formula. Just the basic concept. All in all, a good beginner. Book is well made and colorful.

Very useful book. I had the second edition (1987) and now I bought the fourth edition. It has everything a medical physicist needs to review.

It's a brand new book.

This is a comprehensive book that covers not only the basics but also the recent development in the area. A must have for people working in the area of nuclear medicine and molecular imaging.

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