Physics in Nuclear Medicine, 4e

Simon R. Cherry PhD, James A. Sorenson PhD, Michael E. Phelps PhD
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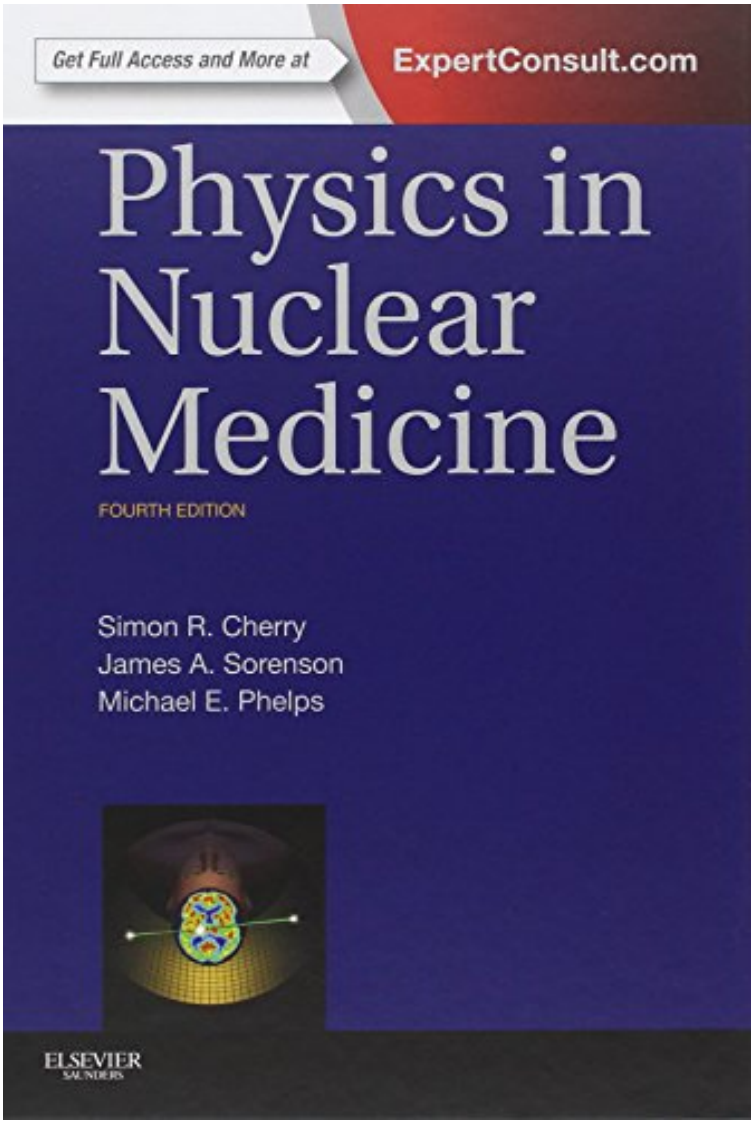

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Physics in Nuclear Medicine - by Drs. Simon R. Cherry, James A. Sorenson, and Michael E. Phelps - provides current, comprehensive guidance on the physics underlying modern nuclear medicine and imaging using radioactively labeled tracers. This revised 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. Whats more, you can reinforce your understanding with graphical animations online at 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, 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.

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." ed 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 agood 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 on the success of the previous editions...The text is well written and the plentiful illustrations are clear and well placedto 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 bookselves 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!