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International Symposium on Biomedical Engineering and Medical Physics, 10-12 October, 2012, Riga, Latvia 2012-02-14

physics in nuclear medicine by drs simon r cherry james a sorensen 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 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 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

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Physics 1995-03-09

advances in biological and medical physics volume iii is a collection of papers dealing with the applications of radioactive isotopes particularly with the dosimetry of artificial radioactive isotopes and the kinetics of the turnover
of radioactive substances one paper explains dosimetry in medicine as regards 1 units and absolute dosage rates and 2 the distribution of radiation in a scattering medium such as the human body the investigator can use tracers to make individual observations of the behavior of specific molecules in steady state systems this feature of tracer applications leads to analysis of biological reaction kinetics some papers discuss the mechanisms involved in the antigen antibody reactions molecular analysis using fast charged particles x ray microscopy ultraviolet microscopy microspectroscopy as well as the biological effects of ultrasonic waves ultrasonic waves can affect biological material through heat action mechanical action or chemical action one paper suggests that cell disintegration is due to the mechanical effect provoked by cavitation and that cells are probably broken down by the sharp frontal shock wave resulting from the collapse of cavitation bubbles the collection can prove beneficial for biochemists micro biologists bio physicists cellular researchers and academicians involved in the study of cellular biology

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this book summarizes basic knowledge of atomic nuclear and radiation physics that professionals need for efficient and safe use of ionizing radiation concentrating on the underlying principles of radiation physics it covers prerequisite knowledge for medical physics courses on the graduate and post graduate levels providing the link between elementary physics on the one hand and the intricacies of the medical physics specialties on the other

Particle Physics 1993

the phenomenon of sound transmissions through marine sediments is of extreme interest to both the united states civilian and navy research communities both communities have conducted research within the field of this phenomenon approaching it from different perspectives the academic research community has approached it as a technique for studying sedimentary and crustal structures of the ocean basins the navy research community has approached it as an additional variable in the predictability of sound trans mission through oceanic waters in order to join these diverse talents with the principal aim of bringing into sharp focus the state of the science in the problems relating to the behavior of sound in marine sediments the office of naval research organized and sponsored an invited symposium on this subject the papers published in this volume are the results of this symposium and mark the frontiers in the state of the art the symposia series were based on five research areas identified by onr as being particularly suitable for critical review and for the appraisal of future research trends these areas include 1 physics of sound in marine sediments 2 physical and engineering properties of deep sea sediments 3 the role of bottom currents in sea floor geological processes 4 nephelometry and the optical properties of the ocean i laters s natural gases in marine sediments and their mode of distribution these five areas also form some of the research priorities of the onr program in marine geology and geophysics

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