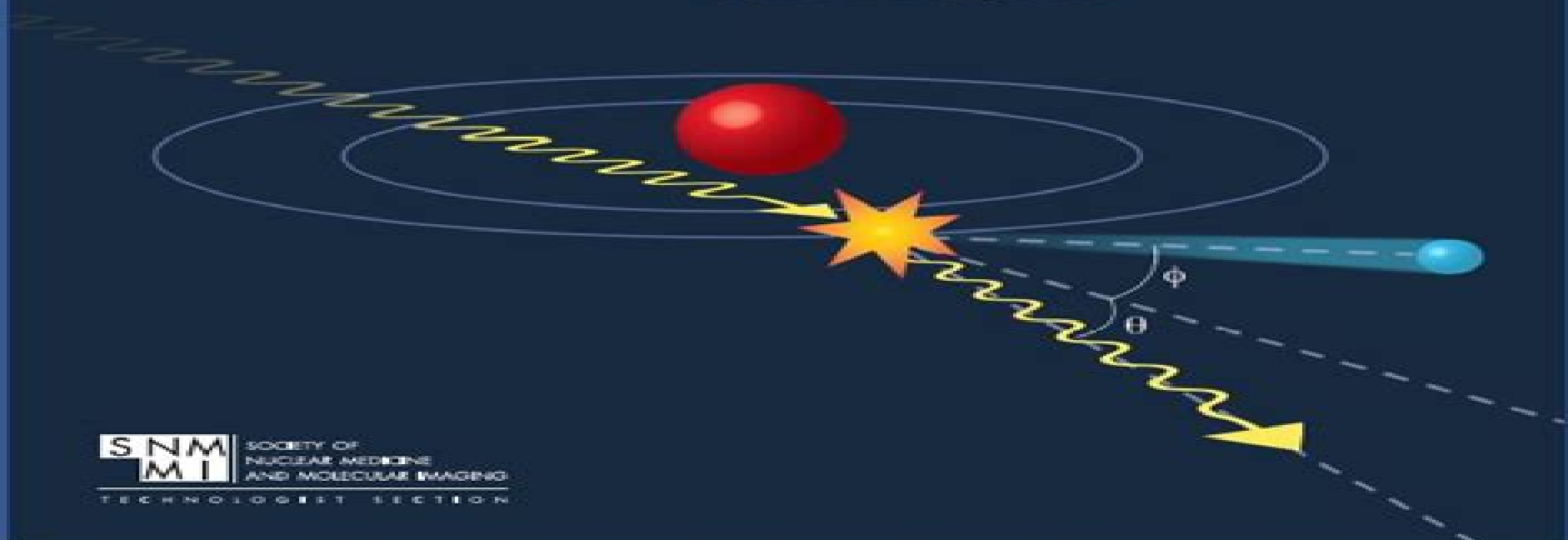


BASIC SCIENCE OF NUCLEAR MEDICINE

The Bare Bone Essentials

Kai H. Lee, PhD



Basic Sciences Of Nuclear Medicine

Magdy M. Khalil



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Basic Sciences of Nuclear Medicine Magdy M. Khalil, 2021-05-26 This book provides comprehensive and detailed information on the scientific bases of nuclear medicine addressing a wide variety of topics and explaining the concepts that underlie many of the investigations and procedures performed in the field. The book is divided into six sections that cover the physics and chemistry of nuclear medicine besides associated quality assurance, quality control procedures, dosimetry and radiation biology, SPECT and PET imaging instrumentation plus CT imaging technology in hybrid modalities, data analysis including image processing, reconstruction, radiomics, image degrading correction techniques along with image quantitation and kinetic modeling. Within these sections particular attention is paid to recent developments and the advances in knowledge that have taken place since release of the first edition in 2011. Several entirely new chapters have been included and the remaining chapters thoroughly updated. Innovations in the ever expanding field of nuclear medicine are predominantly due to integration of the basic sciences with complex technological advances. This excellently illustrated book on the subject will be of interest to not only nuclear medicine physicists and physicians but also clinical scientists, radiologists, radiopharmacists, medical students and technologists.

Basic Science of Nuclear Medicine Roy P. Parker, 1978

Basic Science of Nuclear Medicine Kai H. Lee, Society of Nuclear Medicine and Molecular Imaging, Society of Nuclear Medicine and Molecular Imaging Staff, 2015-02

Positron Emission Tomography Dale L. Bailey, David W. Townsend, Peter E. Valk, Michael N. Maisey, 2006-07-06 Essential for students, science and medical graduates who want to understand the basic science of Positron Emission Tomography (PET), this book describes the physics, chemistry, technology and overview of the clinical uses behind the science of PET and the imaging techniques it uses. In recent years PET has moved from high end research imaging tool used by the highly specialized to an essential component of clinical evaluation in the clinic, especially in cancer management. Previously being the realm of scientists, this book explains PET instrumentation, radiochemistry, PET data acquisition and image formation, integration of structural and functional images, radiation dosimetry and protection and applications in dedicated areas such as drug development, oncology and gene

expression imaging The technologist the science engineering or chemistry graduate seeking further detailed information about PET or the medical advanced trainee wishing to gain insight into the basic science of PET will find this book invaluable This book is primarily repackaged content from the Basic Science section of the big Valk book on PET It contains new completely revised and unchanged chapters covering the basic sciences section of the main book total 18 chapters 2 new chapters 1 16 8 completely revised chapters 4 5 8 13 14 15 17 18 3 minor corrections chapters 2 6 11 5 unchanged chapters 3 7 9 10 12

Nuclear Medicine Physics Ramesh Chandra, 1998 his is an introductory book on physics and related basic sciences of nuclear medicine The book is designed primarily for residents in radiology and nuclear medicine and students studying nuclear medicine technology

Basic Science of Nuclear Medicine Roy P. Parker, Peter H. S. Smith, David Marshall Taylor, 1984

Nuclear Medicine Instrumentation Jennifer Prekeges, 2010-10-25 Written at the technologist level Nuclear Medicine Instrumentation focuses on instruments essential to the practice of nuclear medicine Covering everything from Geiger counters to positron emission tomography systems this text provides students with an understanding of the practical aspects of these instruments and their uses in nuclear medicine Nuclear Medicine Instrumentation is made up of four parts Small Instruments Gamma Camera Single Photon Emission Computed Tomography SPECT and Positron Emission Tomography PET By concentrating on the operation of these instruments and the potential pitfalls that they are subject to students will be better prepared for what they may encounter during their career Chapters include Detectors Gas Filled Scintillation and Semiconductor Image Characteristics SPECT PET Collimators Radiation Measurements and more

Basic Science of PET Imaging Magdy M. Khalil, 2016-11-07 This book offers a wide ranging and up to date overview of the basic science underlying PET and its preclinical and clinical applications in modern medicine In addition it provides the reader with a sound understanding of the scientific principles and use of PET in routine practice and biomedical imaging research The opening sections address the fundamental physics radiation safety CT scanning dosimetry and dosimetry of PET radiotracers chemistry and regulation of PET radiopharmaceuticals with information on labeling strategies tracer quality control and regulation of radiopharmaceutical production in Europe and the United States PET physics and instrumentation are then discussed covering the basic principles of PET and PET scanning systems hybrid PET CT and PET MR imaging system calibration acceptance testing and quality control Subsequent sections focus on image reconstruction processing and quantitation in PET and hybrid PET and on imaging artifacts and correction techniques with particular attention to partial volume correction and motion artifacts The book closes by examining clinical applications of PET and hybrid PET and their physiological and or molecular basis in conjunction with technical foundations in the disciplines of oncology cardiology and neurology PET in pediatric malignancy and its role in radiotherapy treatment planning Basic Science of PET Imaging will meet the needs of nuclear medicine practitioners other radiology specialists and trainees in these fields

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