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KEY=HYNIC - HOUSTON HUDSON

Radiopharmaceutical Chemistry *Springer* **This book is a comprehensive guide to radiopharmaceutical chemistry. The stunning clinical successes of nuclear imaging and targeted radiotherapy have resulted in rapid growth in the field of radiopharmaceutical chemistry, an essential component of nuclear medicine and radiology. However, at this point, interest in the field outpaces the academic and educational infrastructure needed to train radiopharmaceutical chemists. For example, the vast majority of texts that address radiopharmaceutical chemistry do so only peripherally, focusing instead on nuclear chemistry (i.e. nuclear reactions in reactors), heavy element radiochemistry (i.e. the decomposition of radioactive waste), or solely on the clinical applications of radiopharmaceuticals (e.g. the use of PET tracers in oncology). This text fills that gap by focusing on the chemistry of radiopharmaceuticals, with key coverage of how that knowledge translates to the development of diagnostic and therapeutic radiopharmaceuticals for the clinic. The text is divided into three overarching sections: First Principles, Radiochemistry, and Special Topics. The first is a general overview covering fundamental and broad issues like “The Production of Radionuclides” and “Basics of Radiochemistry”. The second section is the main focus of the book. In this section, each chapter’s author will delve much deeper into the subject matter, covering both well established and state-of-the-art techniques in radiopharmaceutical chemistry. This section will be divided according to radionuclide and will include chapters on radiolabeling methods using all of the common nuclides employed in radiopharmaceuticals, including four chapters on the ubiquitously used fluorine-18 and a “Best of the Rest” chapter to cover emerging radionuclides. Finally, the third section of the book is dedicated to special topics with important information for radiochemists, including “Bioconjugation Methods,” “Click Chemistry in Radiochemistry”, and “Radiochemical Instrumentation.” This is an ideal educational guide for nuclear medicine physicians, radiologists, and radiopharmaceutical chemists, as well as residents and trainees in all of these areas. Targets, Tracers and Translation – Novel Radiopharmaceuticals Boost Nuclear Medicine** *MDPI* **This is the fourth Special Issue in Pharmaceuticals within the last six years dealing with aspects of radiopharmaceutical sciences. It demonstrates the significant interest and increasing relevance to ameliorate nuclear medicine imaging with PET or SPECT, and also radiotherapeutical procedures.Numerous targets and mechanisms have been identified and have been under investigation over the previous years, covering many fields of medical and clinical research. This development is well illustrated by the articles in the present issue, including 13 original research papers and one review, covering a broad range of actual research topics in the field of radiopharmaceutical sciences. Quality Control in the Production of Radiopharmaceuticals Advances have led to the production of new radiopharmaceuticals and availability of new production routes. Various new diagnostic agents in the field (such as Ga-68 radiopharmaceuticals and generators) as well as therapeutic agents (such as alpha emitters) have been added to the clinician's menu. It is essential that radiopharmaceuticals are prepared within a robust quality control system encompassing materials and personnel, with adequate documentation, and continuous review of ongoing results. This publication provides guidelines and best practices for the quality control of medical radioisotopes and radiopharmaceuticals. It was written by a group of experts with experience across a range of radiopharmaceuticals and is intended to support professionals in the preparation of good quality and safe products to be used in nuclear medicine procedures. Small Animal Imaging Basics and Practical Guide** *Springer* **This textbook is a practical guide to the use of small animal imaging in preclinical research that will assist in the choice of imaging modality and contrast agent and in study design, experimental setup, and data evaluation. All established imaging modalities are discussed in detail, with the assistance of numerous informative illustrations. While the focus of the new edition remains on practical basics, it has been updated to encompass a variety of emerging imaging modalities, methods, and applications. Additional useful hints are also supplied on the installation of a small animal unit, study planning, animal handling, and cost-effective performance of small animal imaging. Cross-calibration methods and data postprocessing are considered in depth. This new edition of Small Animal Imaging will be an invaluable aid for researchers, students, and technicians involved in research into and applications of small animal imaging. Fundamentals of Nuclear Pharmacy** *Springer Science & Business Media* **A new edition of a book is warranted when the book is successful and there are many new developments in the related discipline. Both have occurred for this book during the past 7 years since its second edition. The growth and development in nuclear pharmacy and radiopharmaceutical chemistry along with the continued success of the book have convinced us to update the book; hence this third edition. This book is a ramification of my nuclear pharmacy courses offered to pharmacy students specializing in nuclear pharmacy, nuclear medicine resi dents, and nuclear medicine technology students. The book is written in an integrated form from the basic concept of atomic structure to the practical clinical uses of radiopharmaceuticals. It serves both as a textbook on nu clear pharmacy for pharmacy students and nuclear medicine technologists, and as a useful reference book for many professionals related to nuclear medicine, such as nuclear medicine physicians and radiologists. The book contains 12 chapters. Each chapter is written as comprehen sively as possible based on my personal experience and understanding. At the end of each chapter, a section of pertinent questions and problems and so me suggested reading materials are included. I have made justifiably many additions and deletions as well as some reorganization in this edition. Chapter 3 is entirely dedicated to instru ments for radiation detection and measurement, including brief description of gas detectors, gamma-detecting instruments, and tomographic scanners. Pharmaco-Imaging in Drug and Biologics Development Fundamentals and Applications** *Springer Science & Business Media* **The volume aim to be a comprehensive overview of the drug and biologic development process that is often called “the valley of death” (pre-IND through approval) where high costs of studies and high rates of product failure are part of the drug development landscape. Imaging tools can serve in this period by adding high value data, the images and the kinetic information they can provide, and cost-effective development alternative tools which potentially improve pivotal study designs. Imaging may identify safety issues early such as unwanted organ or tissue distributions, and then can serve advanced development with added certainty of a drug or biologic’s success to senior corporate management and investors. There are numerous textbooks, reference texts and treatises on medical imaging technologies, teaching tools on medical cases and physics books on the science of detector and computer interface systems. Rarely, in each of these are examples of medical imaging protocols and animal models of disease i.e. a text on methodology in drug development is currently unavailable. Targeted Drug Delivery : Concepts and Design** *Springer* **This authoritative volume explores the fundamental concepts and numerous applications of targeted delivery of drugs to the body. This compilation has been divided into eight sections comprised of the basic principles of drug targeting, disease and organ/organelle-based targeting, passive and active targeting strategies, and various advanced drug delivery tools such as functionalized lipidic, polymeric and inorganic nanocarriers. Together, the twenty-three chapters cover a wide range of topics in the field, including tumor and hepatic targeting, polymer-drug conjugates, nanoemulsion, physical and biophysical characteristics of nanoparticles, and in vivo imaging techniques, among others. The book also examines advanced characterization techniques, regulatory hurdles and toxicity-related issues that are key features for successful commercialization of targeted drug delivery system products. Targeted Drug Delivery is a comprehensive reference guide for drug delivery researchers, both beginners and those already working in the field. Liquid Membranes Principles and Applications in Chemical Separations and Wastewater Treatment** *Elsevier* **Liquid Membranes: Principles and Applications in Chemical Separations and Wastewater Treatment discusses the principles and applications of the liquid membrane (LM) separation processes in organic and inorganic chemistry, analytical chemistry, biochemistry, biomedical engineering, gas separation, and wastewater treatment. It presents updated, useful, and systematized information on new LM separation technologies, along with new developments in the field. It provides an overview of LMs and LM processes, and it examines the mechanisms and kinetics of carrier-facilitated transport through LMs. It also discusses active transport, driven by oxidation-reduction, catalytic, and bioconversion reactions on the LM interfaces; modifications of supported LMs; bulk aqueous hybrid LM processes with water-soluble carriers; emulsion LMs and their applications; and progress in LM science and engineering. This book will be of value to students and young researchers who are new to separation science and technology, as well as to scientists and engineers involved in the research and development of separation technologies, LM separations, and membrane reactors. - Provides comprehensive knowledge-based information on the principles and applications of a variety of liquid membrane separation processes. - Contains a critical analysis of new technologies published in the last 15 years. Technetium-99m Radiopharmaceuticals Status and Trends** *IAEA* **Technetium-99m radiopharmaceuticals will continue to have a significant impact in several areas of nuclear medicine. This publication is intended to provide a broad overview of the current status of technetium-99m radiopharmaceuticals. It includes chapters on the most advanced chemical techniques for labelling biomolecules and synthesizing suitable multifunctional ligands that will help in the development of specific radiotracers. Of special interest for the reader are details of recent research to develop technetium-99m tracers for monitoring different biological processes enabling the development of new radiopharmaceuticals with greatly improved clinical potential. Molecular Imaging Radiopharmaceuticals for PET and SPECT** *Springer Science & Business Media* **Radioisotope-based molecular imaging probes provide unprecedented insight into biochemistry and function involved in both normal and disease states of living systems, with unbiased in vivo measurement of regional radiotracer activities offering very high specificity and sensitivity. No other molecular imaging technology including functional magnetic resonance imaging (fMRI) can provide such high sensitivity and specificity at a tracer level. The applications of this technology can be very broad ranging from drug development, pharmacokinetics, clinical investigations, and finally to routine diagnostics in radiology. The design and the development of radiopharmaceuticals for molecular imaging studies using PET/MicroPET or SPECT/MicroSPECT are a unique challenge. This book is intended for a broad audience and written with the main purpose of educating the reader on various aspects including potential clinical utility, limitations of drug development, and regulatory compliance and approvals. American Red Cross First Aid/CPR/AED Participant's Manual** *Staywell Company* **Rev. ed. of: First aid/CPR/AED for schools and the community. 3rd ed. c2006. Targeted Molecular Imaging in Oncology** *Springer Science & Business Media* **Cancer cells dedifferentiate with repect to cell function; their vascularity is more leaky, but perfusion is heterogenerously reduced, and interstitial fluid pressure is high, severely retarding delivery of agents from the blood. Targeted imaging is designed to produce a detectable difference between tissue that is visualized with single photon and positron emission tomography, magnetic resonance imaging, computed tomography, or ultrasonography. This book uniquely reports strategies for the application of molecular targeted imaging agents such as antibodies, peptides, receptors and contrast agents in the biologic grading of tumors, differential diagnosis of tumors, prediction of therapeutic response and monitoring tumor response to treatment. This book also describes updated information about the imaging of tumor angiogenesis, hypoxia, apoptosis and gene delivery as well as expression in the understanding and utility of tumor molecular biology for better cancer management. Clinical Applications of SPECT-CT** *Springer Nature* **This book, now in a revised and updated second edition, covers the full spectrum of clinical applications of SPECT/CT in the diagnosis and therapy planning of benign and malignant diseases. All chapters have been thoroughly updated and some chapters have been completely rewritten by a new group of experts. The opening chapters discuss the technology and physics of SPECT/CT and its use in dosimetry. The role of SPECT/CT in the imaging of a range of pathologic conditions is then addressed in detail. Applications covered include imaging of the thyroid, neuroendocrine tumors, bone, cardiac scintigraphy, sentinel node scintigraphy and imaging of the lungs. Individual chapters are also devoted to therapy planning in selective internal radiation therapy of liver tumors and to**

Bremsstrahlung SPECT/CT. For Nuclear Medicine Physicians, Radiologists and medical students in this field, the book offers an essential and up-to-date source of information on this invaluable hybrid imaging technique. Adult Umbilical Reconstruction Principles and Techniques *Springer* **This book starts with a description of the anatomy of the umbilicus and its ideal shape. After a brief summary of the history of umbilical reconstruction, currently used umbilical reconstructive techniques are presented. The reader will also find information on the reconstruction of the umbilicus after malignant melanoma; outcomes and complications will be discussed in the last chapters. Written by respected authors, this book will offer residents and fellows as well as practicing and highly experienced plastic surgeons essential guidance on treatment and decision-making concerning umbilical reconstruction. Its numerous illustrations and clearly structured content make the book a must-read. Therapeutic Nuclear Medicine** *Springer* **The recent revolution in molecular biology offers exciting new opportunities for targeted radionuclide therapy. This up-to-date, comprehensive book, written by world-renowned experts, discusses the basic principles of radionuclide therapy, explores in detail the available treatments, explains the regulatory requirements, and examines likely future developments. The full range of clinical applications is considered, including thyroid cancer, hematological malignancies, brain tumors, liver cancer, bone and joint disease, and neuroendocrine tumors. The combination of theoretical background and practical information will provide the reader with all the knowledge required to administer radionuclide therapy safely and effectively in the individual patient. Careful attention is also paid to the role of the therapeutic nuclear physician in coordinating a diverse multidisciplinary team, which is central to the safe provision of treatment. Technetium-99m Radiopharmaceuticals This publication describes the procedures for preparing 23 selected Tc-99m radiopharmaceutical kits. Details of the preparation of ten of the active ingredients are also included. The procedures described here can be used to develop manuals, monographs and standard operating procedures. This publication is expected to serve as a guide to radiopharmaceutical manufacturing centres and centralized pharmacies involved in the production of kits. It will be a useful resource for the many hospital radiopharmacies that routinely use the kits to compound Tc-99m radiopharmaceuticals, and a source of in. Macrocycles in Drug Discovery** *Royal Society of Chemistry* **This book reviews macrocycles in drug discovery, both those of natural origin and semi-synthetic derivatives of natural products, and those designed and synthesized based on principles of medicinal chemistry. The medicinal chemistry of macrocyclic natural products is interesting in itself, but lessons learned from these compounds, in terms of the relationship between structure and desirable physicochemical properties, are now informing the design of fully synthetic macrocyclic drug candidates against a variety of targets including kinases, ATPases, proteases, GPCRs and others. Furthermore, as more non-classical drug targets, such as protein-protein interactions, are pursued in the pharmaceutical industry, macrocyclic molecules are generating increasing interest as they offer a way to provide drug-protein interactions that cover a larger surface area than traditional small molecules. A variety of macrocycles have become important drugs or have been identified as leads to marketed drugs. This text will discuss these compounds, their pharmacology and synthesis, in the context of their broad chemotype as compounds composed of large rings. Providing a wide reaching review of this important area in a single volume, this book will be of interest to biochemists, pharmaceutical scientists and medicinal chemists working in industry or academia. Color Atlas & Synopsis of Pediatric Dermatology** *McGraw-Hill* **The book's organization reflects the "tried and true" format of the best-selling "Fitz" Color Atlas: for each condition, there are one to two color photographs coupled with salient points of epidemiology, history, physical exam, differential diagnosis, laboratory and special examinations, disease course and up-to-date treatments. Look for these important highlights: *an extensive collection of exquisite new photographs for each condition as they present in children or adolescents *a concise summary of etiology, physical findings, laboratory tests and prognosis for each condition *emergency skin signs of life-threatening conditions in children, including infectious diseases,adverse drug reactions, and more *new theraputic recommendations including the recently approved exciting topicalimmunomodulators for atopic dermatitis (tacrolimus) and HPV infections (imiquimod) withdosages and indications for the pediatric population PEDIATRIC COLOR ATLAS features: *493 new, crisp, clear color photographs from many previously unpublished collections *straight-forward, user-friendly organization *excellent, up-to-date management and therapy section approved pediatric dosages A remarkable dollar value, this new PEDIATRIC COLOR ATLAS is an unbeatable visual guide to confirm your next diagnosis. Textbook of Personalized Medicine** *Humana Press* **Advances in the technology used in personalized medicine and increased applications for clinical use have created a need for this expansion and revision of Kewal K. Jain's Textbook of Personalized Medicine. As the first definitive work on this topic, this book reviews the fundamentals and development of personalized medicine and subsequent adoptions of the concepts by the biopharmaceutical industry and the medical profession. It also discusses examples of applications in key therapeutic areas, as well as ethical and regulatory issues, providing a concise and comprehensive source of reference for those involved in healthcare management, planning and politics. Algorithms are included as a guide to those involved in the management of important diseases where decision-making is involved due to the multiple choices available. Textbook of Personalized Medicine, Second Edition will serve as a convenient source of information for physicians, scientists, decision makers in the biopharmaceutical and healthcare industries and interested members of the public. Radioguided Surgery** *Springer Science & Business Media* **This multidisciplinary textbook is designed to be the standard on the subject and is geared for use by physicians who are involved in the care and/or diagnosis of cancer patients. Comprehensive coverage is provided on all aspects of radioguided surgery. Practical information is readily accessible and throughout there is an emphasis on improved decision making. Tables present the indications, performance, and interpretation of procedures at a glance. A wealth of illustrations, including a full-color insert, enhances the application of new concepts. Unravelling Cancer Signaling Pathways: A Multidisciplinary Approach** *Springer Nature* **Unravelling the intricate cell signalling networks and their significance in cancer poses major intellectual challenge. Keeping this in mind, the book aims at understanding the mechanism of action of different proteins and their complexes in the cancer signalling pathways. Hence, the proposed book that comprises 20 chapters provides a comprehensive introduction on cell signalling, its alterations in cancer, molecules that have been popular targets as well as the ones that are emerging as targets. In addition, it discusses different forms of therapy that are coming up for its treatment. Other than that, a major portion of the book is focused on studying different disciplines at the interface of biology and other areas of science that are being used to understand cancer biology in depth. The Form of Cities Political Economy and Urban Design** *John Wiley & Sons* **The Form of Cities offers readers a considered theoretical introduction to the art of designing cities. Demonstrates that cities are replete with symbolic values, collective memory, association and conflict. Proposes a new theoretical understanding of urban design, based in political economy. Demonstrates different ways of conceptualising the city, whether through aesthetics or the prism of gender, for example. Written in an engaging and jargon-free style, but retains a sophisticated interpretative edge. Complements Designing Cities by the same author (Blackwell, 2003). Nuclear Medicine in Infectious Diseases** *Springer Nature* **This book is designed as a reference manual that is exceptional in systematically discussing every aspect of nuclear medicine imaging of infections, with careful explanation of the most up-to-date concepts and recent guidelines on diagnostic flowcharts as shared between the EANM, ESR, ESNR, ESCMID, ESC, EACVI, ECCO, ESGAR and EBJIS. It is truly comprehensive, describing all methods, all acquisition parameters, and all interpretation criteria in all infectious diseases. The early chapters discuss currently available radiopharmaceuticals and nuclear medicine imaging technologies, including the hybrid modalities SPECT/CT, PET/CT, and PET/MRI. The remainder of the book is devoted to the nuclear medicine imaging of infections at different body sites as well as fever of unknown origin, fungal infections, and tuberculosis and AIDS-associated infections. Infections represent a real emergency globally, and early diagnosis and treatment follow-up will continue to pose huge challenges. In this context, Nuclear Medicine in Infectious Diseases will be a superb asset for nuclear medicine and infectious disease specialists and other clinicians everywhere. MIRD Radionuclide Data and Decay Schemes** *Society of Nuclear Medicine, Incorporated* **Robotic Radiosurgery** *Cyberknife Society* **Covers a wide range of topics on robotic radiosurgery. General topics on robotic radiosurgery include: 9 chapters on history, physics, radiobiology and technology and 24 chapters on CNS, non-CNS and future applications in robotic radiosurgery. Includes 157 figures and 93 tables, The Maillard Reaction Chemistry, Biochemistry, and Implications** *Royal Society of Chemistry* **This single-author volume covers all aspects of the Maillard reaction in a uniform, co-ordinated, and up-to-date manner. Technetium-99m Pharmaceuticals Preparation and Quality Control in Nuclear Medicine** *Springer Science & Business Media* **Radioactive drug development is a multi-disciplinary task. Therefore, dedicated scientists and experts from different fields of specialisation have contributed to this book. The text reviews forty years of advances in radiopharmaceutical development based on Technetium. The first section reviews basic principles and analytic methods, and information on chemical makeup of radiopharmaceuticals. Part 2 reviews 99mTc-radiopharmaceuticals used in nuclear medicine, thoroughly outlining their chemistry, formulation, pharmacokinetics and clinical applications. Boronic Acids in Saccharide Recognition** *Royal Society of Chemistry* **The desire to quantify the presence of analytes within diverse physiological, environmental and industrial systems has led to the development of many novel detection methods. In this arena, saccharide analysis has exploited the pair-wise interaction between boronic acids and saccharides. Boronic Acids in Saccharide Recognition provides a comprehensive review and critical analysis of the current developments in this field. It also assesses the potential of this innovative approach, outlining future lines of research and possible applications. Topics include: the molecular recognition of saccharides, the complexation of boronic acids with saccharides, fluorescent sensors and the modular construct of fluorescent sensors, further sensory systems for saccharide recognition and an extensive bibliography. This high level book is ideal for researchers both academic and industrial who require a comprehensive overview of the subject. Dispute Settlement Decisions: Bernan's Annotated Reporter Decisions Reported 12 June 2007 - 13 July 2007 Dispute settlement decisions (DSD) of the World Trade Organization (WTO) are presented with the aid of extensive annotations, in-depth analysis, and comprehensive summaries of case histories. The extensive index in each volume enables access to particular titles. Legal precedents and conclusions are detailed in the legal annotations and conclusions sections. Case and treaty citations, along with current information on the overall status of all disputes before the WTO are presented in two tables. Current interpretations of the various treaties that govern international trade law contain full-text decisions. Starting with Volume 78, published in February 2007, Bernan is collaborating with international trade experts from Bryan Cave LLP to produce enhanced editions of the WTO DSD. The editors for this series are Felipe Berer and Jackson C. Pai. Messrs. Berer and Pai are Senior Trade Policy Advisors working out of the Washington, D.C., and Los Angeles offices of Bryan Cave LLP. They assist clients in the analysis of cross-border trade rules and trade agreements, including the implications of U.S. bilateral and regional trade agreements and WTO rules. Mr.Berer has also assisted in trade remedy investigations, WTO proceedings and trade policy developments in the United States and Latin America. These volumes contain in-depth analysis that includes market implications for the various industries and nations affected. This expert commentary makes this series truly invaluable for all companies that do business internationally, law firms with a trade practice, government agencies with a focus on trade, and academic institutions with related courses of study. Volume 85 covers dispute case DS332, regarding Brazil's import restriction on retreaded tyres and dispute case DS336, which concerns countervailing duties imposed by Japan on certain Dynamic Random Access memories (DRAMs) from Korea. Apoptosis in Health and Disease** *CRC Press* **The impact of Apoptosis, or programmed cell death, is thought to play a crucial role in the development and progression of disease. Whilst Apoptosis remains extensively studied in the context of immunology, the focus of research has greatly expanded to investigate the key role it is now believed to play in hematopoiesis, angiogenesis, inflammation Physics and Radiobiology of Nuclear Medicine** *Springer Science & Business Media* **From a distinguished author comes this new edition for technologists, practitioners, residents, and students in radiology and nuclear medicine. Encompassing major topics in nuclear medicine from the basic physics of radioactive decay to instrumentation and radiobiology, it is an ideal review for Board and Registry examinations. The material is well organized and written with clarity. The book is supplemented with tables and illustrations throughout. It provides a quick reference book that is concise but comprehensive, and offers a complete discussion of topics for the nuclear medicine and radiology physician in training. Nuclear Medicine Textbook Methodology and Clinical Applications** *Springer* **Building on the traditional concept of nuclear medicine, this textbook presents cutting-edge concepts of hybrid imaging and discusses the close interactions between nuclear medicine and other clinical specialties, in order to achieve the best possible outcomes for patients. Today the diagnostic applications of nuclear medicine are no longer stand-alone procedures, separate from other diagnostic imaging modalities. This is especially true for hybrid imaging guided interventional radiology or surgical procedures. Accordingly, today's nuclear medicine specialists are actually specialists in multimodality imaging (in addition to their expertise in the diagnostic and therapeutic uses of radionuclides). This new role requires a new core curriculum for training nuclear medicine specialists. This textbook is designed to meet these new educational needs, and to prepare nuclear physicians and technologists for careers in this exciting specialty. Nanobiomaterials Applications in Drug Delivery** *CRC Press* **This new volume focuses**

on the ever-growing and ever-sophisticated use of nanobiomaterials in drug delivery. There have been significant developments in the delivery of the active pharmaceutical ingredients to target sites, thereby sparing the normal functioning biological systems from damage, and this volume highlights some of the most important developments in the field. The book first provides an overview of nanobiomaterials and then goes on to report on new developments in drug delivery and nanotechnology, nanobiomaterials as carriers in cancer therapy, and the diverse uses of nanobiomaterials. Broken into sections, the chapters cover: an overview of nanobiomaterials drug delivery and nanotechnology nanobiomaterials as carriers in cancer therapeutics diverse uses of nanobiomaterials This volume will be a valuable resource on drug delivery for pharmaceutical manufacturers, healthcare personnel, and researchers. PET/CT in Lung Cancer *Springer* **This concise, excellently illustrated pocket book provides an up-to-date summary of the science and practice of PET/CT imaging in lung cancer. The coverage encompasses the entire spectrum of lung cancer – pathology, radiological and PET/CT imaging, and management. Readers will also find information on the physics of PET and its use in respiratory gating and radiotherapy planning. The highlights of the book are the exquisite depiction of normal variants, pitfalls, and artifacts and a pictorial atlas of the various types of lung cancer and their manifestations. The contributing authors are well-known and experienced oncologists, pathologists, radiologists, and nuclear physicians. This book has been compiled under the auspices of the British Nuclear Medicine Society. It will be of high value for nuclear physicians, radiologists, referring clinicians and oncologists, and paramedical staff working in these fields Clinical Translation of Radiolabelled Monoclonal Antibodies and Peptides There is increased global interest in radiolabelled biologicals for clinical applications. Influenced by the search for the 'biological bullet', a variety of strategies have evolved for radiolabelling biological products with a view to human health application. This publication describes the challenges that the in vivo use of these products brings and provides essentials from in vitro to in vivo validation in human investigations. Additional attention is paid to safety and the effective use of radiolabelled biologicals in a busy clinical setting.--Publisher's description. Radiolabelled Autologous Cells Methods and Standardization for Clinical Use Advances in Healthcare Technology Shaping the Future of Medical Care** *Springer Science & Business Media* **Improving healthcare and staying healthy is one of the most discussed and important issues in our society. Technology has played and will play an important role in many aspects of the healthcare system, and it offers new and better ways to solve the key health problems of the new century. This book describes valued contributions of technology for improving hospital and home healthcare, and gives a perspective on how they will influence critical aspects of future medical care. It provides an overview and discussion of trends, presents the state-of-the-art of important research areas, and highlights recent breakthrough results in selected fields, giving an outlook on game-changing developments in the coming decades. The material is arranged in 6 parts and a total of 31 chapters. The healthcare areas addressed are: General advances and trends in healthcare technology, diagnostic imaging, integration of imaging and therapy, molecular medicine, medical information technology and personal healthcare. Nuclear Endocrinology** *Springer Science & Business Media* **Nuclear medicine is an important element of daily practice for the endocrinologist, both for diagnosis and for treatment. The continuous rapid development of nuclear medicine procedures has created the need for a concise, up-to-date practical guide that presents the essential information required by the endocrinologist. This book is designed to ensure ease of use in clinical practice and provides the most relevant information on nuclear medicine as applied to endocrine pathology. It is divided into three sections covering general aspects of nuclear medicine, the role of nuclear endocrinology in diagnosis, and the role of nuclear endocrinology in therapy. The endocrine glands are covered by organ and by pathology. Pertinent background information is provided, choice of radiopharmaceutical is explained, and the role of different image acquisition techniques is discussed. In addition, informative clinical cases are presented with the aid of high-quality images. Basic Sciences of Nuclear Medicine** *Springer Nature* **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. Operational Guidance on Hospital Radiopharmacy A Safe and Effective Approach Clinically safe, effective and economic practices in the area of hospital radiopharmacy can strengthen the overall performance of nuclear medicine services. This guidance provides practical points at different levels of operation including staff training, facilities, radiopharmaceutical practices, record keeping and quality control. Therefore, it is an essential read for nuclear medicine physicians, radiologists, and radiopharmacists who take responsibility to ensure concordance with internationally recognized practices.**