<<核医学与PET>>

图书基本信息

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作者：Paul E. Christian

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内容概要

An invaluable reference tool for students and practitioners alike, this expert textbook presents fundamental concepts in nuclear medicine such as math, statistics, and physics, as well as current information on instrumentation, computer and laboratory sciences, radiochemistry, and radiopharmacology. After general discussions of radiation safety and patient care, each body system is covered in a separate chapter that covers relevant anatomy and physiology followed by details of the performance and interpretation of various procedures for diagnosing specific problems. Up-to-date, clinically relevant material reflects all content covered in the nuclear medicine technology program curriculum. In-depth procedure discussions relevant to the clinical practice of nuclear medicine prepare readers to perform procedures with confidence. Accessible writing style and approach to basic science subjects addresses fundamentals first, both throughout the book and within each chapter, and topics build toward more complex concepts. Learning tools such as chapter outlines, chapter objectives, suggested readings, and a Math and Statistics review help readers identify important points within each chapter.

Editors and contributors from a variety of academic and clinical settings provide a broad philosophic and geographic perspective, making this an authoritative and comprehensive resource. A comprehensive glossary defines specialized terminology and important concepts. Updated material keeps students informed about current practices for Tc-99m ECD imaging, scintillation cameras, quality control, radiation safety regulations, and new radiopharmaceuticals. New chapters include expanded coverage of the fundamentals of instrumentation and radiochemistry applications, as well as clinical applications of PET to oncology. A new chapter on SPECT (single photon emission computed tomography) covers: instrumentation; image acquisition, filtering, reconstruction and display; image properties; and physics and artifacts. 100 new illustrations accompany the 3 new chapters, and images and equipment photos have been updated throughout the book where needed. A Mathematics and Statistics review added to the first chapter features multiple choice questions with answers in the back of the book.

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书籍目录

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