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Tomography ^, the definitive text by the foremost authorities on positron emission tomography pet has

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Positron emission tomography (PET) is a to-mographic imaging technique which allows non-invasive quantitative assessment of bio-chemical and functional processes. A range of positron emitters are available for use but ^{18}F (combined with FDG \square fluorodeoxyglucose) is the most commonly used. PET-CT has par-

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Written by the best known authority in positron emission tomography (PET), this comprehensive text is the first definitive reference in the field in almost twenty years.

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Library emission tomography pet is a
noninvasive medical imaging technology
that can generate high resolution images of

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Emission and animal physiological functions
it is used for

The definitive text by the foremost authorities on positron emission tomography (PET) has now been

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thoroughly revised to reflect the major alterations in PET technology and practice since the introduction of PET/CT scanners. Now, this Second Edition includes many PET/CT images and new chapters dealing with CT scanning and PET/CT image fusion. The major focus is on strategies to optimally integrate CT and

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PET to a "one-stop" diagnosis for cancer, heart disease, neurologic disorders, psychiatric disorders, infection, inflammation, and other conditions.

Written by the best-known authority in positron emission tomography (PET), this comprehensive text is the first definitive

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reference in the field in almost twenty years. The book thoroughly explains the principles, clinical applications, and economic aspects of positron emission tomography today, enabling readers to make well- informed cost/benefit decisions and use PET as an effective diagnostic tool. Coverage includes

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extensive discussions of current oncologic, neurologic, psychiatric, and cardiac applications. An entire section gives readers a preview of emerging applications of PET in gene therapy, nephrology, pediatrics, infection/inflammation imaging, skeletal imaging, and pulmonary medicine. An appendix provides specific

Access Free Principles And Practice Of Positron Emission Tomography protocols for clinical PET imaging.

Principles and Practice of Surgical Oncology uniquely emphasizes a multidisciplinary, integrated approach to the treatment of solid tumors. It presents treatment strategies that combine surgery with preoperative or postoperative

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emission Tomography, adjunctive chemotherapy, hormonal therapy, and/or radiation therapy to achieve optimal outcome. The book features contributions from surgeons, basic scientists, pathologists, radiologists, radiation therapists, and medical oncologists and offers a comprehensive presentation of genetics, molecular

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biology, pathogenesis, and multimodal therapeutic approaches. A unique feature of the book is a commentary following each chapter, which describes alternative approaches and discusses controversial areas of current therapy. A companion Website will offer the fully searchable text with images.

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This handbook, written in a clear and precise style, describes the principles of positron emission tomography (PET) and provides detailed information on its application in clinical practice. The first part of the book explains the physical and biochemical basis for PET and covers such

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topics as instrumentation, image reconstruction, and the production and diagnostic properties of radiopharmaceuticals. The focus then turns to the use of PET in clinical practice, including its role in hybrid imaging (PET-CT). A wide range of oncological applications in different body systems and

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Emission Tomography of PET in cardiology, neurology, and psychiatry are also addressed. Characteristic findings are described and illustrated by numerous images, many of them in color. This book will be of value not only for nuclear medicine physicians and radiologists but also for oncologists, surgeons,

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cardiologists, neurologists, psychiatrists, and residents with an interest in molecular imaging.

This book's stated purpose is to provide a discussion of the technical basis and clinical applications of positron emission tomography (PET), as well as their recent

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Emision Tomography progress in nuclear medicine. It also summarizes current literature about research and clinical science in PET. The book is divided into two broad sections: basic science and clinical science. The basic science section examines PET imaging processing, kinetic modeling, free software, and radiopharmaceuticals. The

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clinical science section demonstrates various clinical applications and diagnoses. The text is intended not only for scientists, but also for all clinicians seeking recent information regarding PET.

The thoroughly updated fifth edition of this landmark work has been extensively

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revised to better represent the rapidly changing field of radiation oncology and to provide an understanding of the many aspects of radiation oncology. This edition places greater emphasis on use of radiation treatment in palliative and supportive care as well as therapy.

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(1E 1985; *Select List Allied Health) Incl. planar imaging/ SPECT/PET/parathyroid imaging/adrenal gland/lab. application

Positron Emission Tomography is a nuclear medicine technique first used to study the brain. Several decades ago, PET scanners design and performance have

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improved considerably: number of detectors has increased from 20 to 20,000, axial field of view from 2 to 20 cm, spatial resolution has improved from 25 to 5 mm, sensitivity has increased of about 1000 fold. At the same time, clinical applications have grown dramatically. In the first section of this book the authors

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review some of developments in PET instrumentation, with emphasis on data acquisition, processing and image formation. In the second section authors expose examples of applications in human research. In the last section authors describe applications in assessment and prediction of oncological treatment

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response.

Thoroughly revised and updated, this Fourth Edition is the most comprehensive, current reference on lung cancer, with contributions from the world's foremost surgeons, radiation oncologists, medical oncologists, pulmonologists, and basic

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scientists. Coverage includes complete information on combined modality treatments for small cell and non-small cell lung cancer and on complications of treatment and management of metastases. Emphasis is also given to early detection, screening, prevention, and new imaging techniques. This edition has expanded

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thoracic oncology chapters including thymus, mesothelioma, and mediastinal tumors, more detailed discussion of targeted agents, and state-of-the-art information on newer techniques in radiotherapy. Other highlights include more international contributors and greater discussion of changes in lung cancer

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management in each region of the world.

A new editor, Giorgio Scagliotti, MD from the University of Turin, has coordinated the accounts of European activities. A companion website includes the full text online and an image bank.

Doody's Book Review - Score: 95, 4 Stars!

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Emission Tomography Nuclear Medicine Instrumentation is the first text to covers instruments vital to nuclear medicine at a technologist's level. It provides students with concise and straightforward information pertaining to the operation and use of each instrument. It is specifically designed to prepare students for typical scenarios and potential

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pitfalls they may encounter throughout their careers. Nuclear Medicine

Instrumentation is broken into four main parts: □ Small Instruments □ Gamma Camera □ Single Photon Emission Computed Tomography (SPECT) □ Positron Emission Tomography (PET) Topics discussed include factors relating

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to Radiation Measurements, Quality Control of Gamma Cameras, Basic Principles and Image Display Techniques for Single γ -Photon Emission Computed Technology and much more! Each new print copy of this review guide includes an interactive CD-ROM with review questions, answers, and explanations.

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Please note: Electronic formats of this review guide do not include the CD ROM.

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