1. Record Nr. UNINA9910458500203321

Titolo	Emission tomography [[electronic resource]] : the fundamentals of PET and SPECT / / [edited by] Miles N. Wernick, John N. Aarsvold
Pubbl/distr/stampa	Amsterdam ; ; Boston, : Elsevier Academic Press, c2004
ISBN	1-281-02125-3 9786611021252 0-08-052187-8
Descrizione fisica	1 online resource (597 p.)
Altri autori (Persone)	WernickMiles N. <1962-> AarsvoldJohn N
Disciplina	616.07/575
Soggetti	Tomography, Emission Diagnostic imaging Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front Cover; EMISSION TOMOGRAPHY: The Fundamentals of PET and SPECT; Copyright Page; Contents; Contributors; Foreword; Preface; Acknowledgements; Chapter 1. Imaging Science Bringing the Invisible to Light; I. Preamble; II. Introduction; III. Imaging Science; IV. Fundamental and Generic Issues of Imaging Science; V. Methodology and Epistemology; VI. A View of the Future; Chapter 2. Introduction to Emission Tomography; I. What is Emission Tomography?; II. The Making of an Emission Tomography Image; III. Types of Data Acquisition: Static, Dynamic, Gated, and List Mode; IV. Cross-Sectional Images V. Radiopharmaceuticals and Their ApplicationsVI. Developments in Emission Tomography; Chapter 3. Evolution of Clinical Emission Tomography; I. Introduction; II. The Beginnings of Nuclear Medicine; III. Early Imaging Devices; IV. Evolution of Emission Tomography and Initial Applications; V. Clinical Applications; VI. Summary; Chapter 4. Basic Physics of Radioisotope Imaging; I. Where Do the Nuclear Emissions Used in Imaging Come From?; II. Relevant Modes of Nuclear Decay for Medical Radionuclide Imaging; III. Production of Radionuclides for Imaging

IV. Interactions of Nuclear Emissions in MatterV. Exploiting Radiation Interactions in Matter for Emission Imaging; VI. Physical Factors That Determine the Fundamental Spatial Resolution Limit in Nuclear Emission Imaging; Chapter 5. Radiopharmaceuticals for Imaging the Brain; I. Introduction; II. Biochemical Processes in the Brain; III. New Radiopharmaceutical Development; IV. Neuroscience Studies; V. Applications of Imaging Studies: Dopamine System; VI. Oncology Studies; VII. Genomic Studies; VIII. Summary; Chapter 6. Basics of Imaging Theory and Statistics; I. Introduction
II. Linear SystemsIII. Discrete Sampling; IV. Noise and Signal; V. Filtering; VI. Smoothing; VII. Estimation; VIII. Objective Assessment of Image Quality; Chapter 7. Single-Photon Emission Computed Tomography; I. Planar Single-Photon Emission Imaging; II. Conventional Gamma Cameras; III. Tomography; IV. Single-Photon Emission Computed Tomography Systems; V. Tomographic Single-Photon Emission Imaging; VI. Other Detectors and Systems; VII. Summary; Chapter 8. Collimator Design for Nuclear Medicine; I. Basic Principles of Collimator Design
II. Description of the Imaging System and Collimator GeometryIII. Description of Collimator Imaging Properties; IV. Septal Penetration; V. Optimal Design of Parallel-Hole Collimators; VI. Secondary Constraints; VII. Summary; Chapter 9. Annular Single-Crystal SPECT Systems; I. Overview: Annular Single-Photon Emission Computed Tomography Systems; II. Principles and Design of CeraSPECT; III. Annular SensOgrade Collimators; IV. Modification of Light Optics in a Scintillation Camera; V. NeurOtome, A Bridge between Single-Photon Emission Computed Tomography and Positron Emission Tomography VI. MammOspect, an Annular Breast Single-Photon Emission Computed Tomography Camera

Sommario/riassunto

PET and SPECT are two of today's most important medical-imaging methods, providing images that reveal subtle information about physiological processes in humans and animals. Emission Tomography: The Fundamentals of PET and SPECT explains the physics and engineering principles of these important functional-imaging methods. The technology of emission tomography is covered in detail, including historical origins, scientific and mathematical foundations, imaging systems and their components, image reconstruction and analysis, simulation techniques, and clinical and laboratory applications. The

2. Record Nr. UNINA9910955776503321

Autore	Adalian Rouben Paul
Titolo	Historical dictionary of Armenia / / Rouben Paul Adalian
Pubbl/distr/stampa	Lanham, MD, : Scarecrow Press, 2010 New York : , : Bloomsbury Publishing (US), , 2010
ISBN	979-82-16-42158-0 979-82-16-20776-4 1-282-56138-3 9786612561382 0-8108-7450-4
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (751 p.)
Collana	Historical dictionaries of Europe ; ; no. 77
Disciplina	956.6/2003
Soggetti	Armenians - Foreign countries - History Armenian literature HISTORY - General Armenians - Foreign countries History Dictionaries. Armenia History Dictionaries Armenia
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Contents; Editor's Foreword; Preface; Transliteration; Acronyms and Abbreviations; Map; Chronology; Introduction; The Dictionary; Photospread; Bibliography; About the Author
Sommario/riassunto	The second edition of the Historical Dictionary of Armenia relates the turbulent past of this persistent country through a chronology, an introductory essay, a bibliography, and over 200 cross-referenced dictionary entries on significant persons, events, places, organizations, and other aspects of Armenian history from the earliest times to the present.