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Titolo	Physics of PET and SPECT imaging // edited by Magnus Dahlbom, PhD, Department of Molecular and Medical Pharmacology, Division of Nuclear Medicine, David Geffen School of Medicine of UCLA
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Edizione	[1st ed.]
Descrizione fisica	1 online resource (504 pages) : illustrations (some color), tables
Collana	Imaging in Medical Diagnosis and Therapy A Taylor & Francis book
Disciplina	616.07/575
Soggetti	Tomography, Emission Single-photon emission computed tomography Imaging systems in medicine
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	A Taylor and Francis Book.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Part 1. Basics -- Part 2. Technology -- Part 3. Quantitative imaging -- Part 4. Multimodality imaging -- Part 5. Preclinical imaging and clinical applications.
Sommario/riassunto	This text provides coverage of PET and SPECT instrumentation and multimodality imaging. It takes an integrative approach, bridging the researcher and clinician's perspectives. It begins with an introduction to basic physics of PET and SPECT, followed by a section on detector technology. It addresses various aspects of producing quantitative images, such as techniques for image reconstruction, corrections to the data to produce quantitative images, and dynamic imaging. It also discusses instrumentation for multimodality imaging and technologies used in pre-clinical imaging using PET and SPECT.