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Titolo	An introduction to medical physics / Muhammad Maqbool editor
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Descrizione fisica	xii, 416 p. : ill. ; 25 cm
Collana	Biological and medical physics, biomedical engineering, 1618-7210
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Altri autori (Persone)	Maqbool, Muhammadauthor
Disciplina	610.153
Soggetti	Medical physics Radiation Radiology Biomedical engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters
Nota di contenuto	Introduction -- Basic Concepts in Radiation Dosimetry -- Interaction of Gamma Rays and X-Rays with Matter -- Treatment planning in Radiation Therapy -- Image Guided Radiation Therapy -- Introduction to Radiological Images -- Mammography -- Computed Tomography -- Magnetic Resonance Imaging (MRI) -- CT and MRI in Radiotherapy -- Nuclear Medicine Physics -- Ultrasound -- Radiation Shielding and Protection, Part I – Measurement, Dosimetry, Shielding and Protection -- Radiation Shielding and Protection, Part II
Sommario/riassunto	This book begins with the basic terms and definitions and takes a student, step by step, through all areas of medical physics. The book covers radiation therapy, diagnostic radiology, dosimetry, radiation shielding, and nuclear medicine, all at a level suitable for undergraduates. This title not only describes the basics concepts of the field, but also emphasizes numerical and mathematical problems and examples.Students will find An Introduction to Medical Physics to be an indispensable resource in preparations for further graduate studies in the field