

1. Record Nr.	UNINA9910349552003321
Titolo	Radiation Oncology [[electronic resource] /] / edited by Frederik Wenz
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-319-52619-7
Disciplina	615.842
Soggetti	Radiotherapy Oncology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Volume I: Basic Statistics and Clinical Studies in Radiation Oncology -- Techniques -- Treatment Documentation -- Clinical Radiobiology -- Patient Management -- Volume II: Clinical Radiation Therapy -- Tumors of the CNS -- Tumors of the Eye -- Head and Neck Tumors -- Tumors of the Thoracic Organs -- Tumors of the Gastrointestinal tract -- Tumors of the Kidney and the Uriniferous -- Specific Tumors in Men -- Specific Tumors in Women -- Skin Tumors -- Tumors of the Connective Tissue -- Neoplasms of the Lymphatic System -- Volume III: Medical Physics: Mathematical/Computer Science Background -- Biophysics -- Radiation Physics -- Anatomy and Physiology -- Instrumentation -- Biomedical Engineering -- Imaging -- Radiation Therapy. .
Sommario/riassunto	In this major reference work, a team of leading experts provide a comprehensive and up-to-date overview of the ever-changing field of radiation oncology. The publication is divided into three volumes, the first of which covers basics such as radiotherapy techniques, treatment documentation, clinical radiobiology, and patient management. In the second volume, all aspects of clinical radiation therapy are discussed in depth for the full range of tumor types. In order to ensure that the reader has a full understanding of cancer management in each scenario, information is also provided on diagnosis and classification, general management principles, the role of surgical and systemic therapy, and prognosis. The third volume focuses on medical physics,

covering the mathematical and computer science background, biophysics, radiation physics, instrumentation, tracer kinetic modeling, pharmacokinetics and pharmacodynamics, radiation sources and detectors, biomedical engineering, imaging techniques, radiation treatment planning, and quality assurance. This book will be invaluable for all radiation oncologists. It is published as part of the SpringerReference program, which delivers access to living editions constantly updated through a dynamic peer-review publishing process.

---