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Nota di contenuto	I-Introductory -- Molecular Imaging in Oncology -- Imaging Criteria for Tumor Treatment Response Evaluation -- Imaging in Radiation Therapy -- Interventional Radiology in Oncology -- Imaging Principles in Pediatric Oncology -- The role of Radiogenomics in Oncologic imaging -- II-Bone and soft Tissue Tumors -- Introduction to Soft Tissue Sarcomas -- Introduction to Bone Sarcomas -- Introduction to Retroperitoneal Tumors -- Conventional Radiology of Bone and Soft Tissue Tumors -- US-CT-MRI Findings: Staging-Response-Restaging of Bone and Soft Tissue Tumors -- Positron Emission Tomography in Bone and Soft Tissue Tumors -- Clinical Implications of Soft Tissue Sarcomas -- Clinical Implications of Bone Sarcomas -- Clinical Implications of Retroperitoneal Sarcomas -- III-CNS Tumors -- Introduction to Brain Tumors -- Conventional Imaging in the Diagnosis of Brain Tumors -- Diagnostic Issues in Treating Brain Tumors -- Tumors of the Spinal Cord and Spinal Canal -- Advanced MRI Techniques in Brain Tumors --

PET/CT: Is There a Role? -- Clinical Implications of Brain Tumors -- IV-Head and Neck Cancer -- Introduction to Head and Neck Cancer -- US Findings in Head and Neck Cancer -- CT and MR Findings in Head and Neck Cancer -- PET-CT Findings in Head and Neck Cancer -- Clinical Implications of Head and Neck Cancer -- V-Lung Cancer -- Lung Cancer -- Lung Cancer Screening in High-Risk Patients with Low-Dose Helical CT -- CT-MRI in Diagnosis and Staging in Lung Cancer -- PET-CT in Lung Cancer -- EBUS Staging and Lung Cancer -- Clinical Implications of Lung Cancer -- VI-Breast Cancer -- Breast Cancer -- Mammographic Diagnosis of Breast Cancer -- US Findings in Breast Cancer -- MR Mammography -- Breast Cancer: PET/CT Imaging -- Clinical Implications of Breast Cancer -- VII-Gynecologic Cancer -- Introduction to Gynecologic Cancer -- US Findings in Gynecologic Cancer -- CT-MR Findings in Cervical and Endometrial Cancer -- PET/CT with [18F]FDG in Cervical Cancer -- PET/CT with [18F]FDG in Endometrial Cancer -- CT-MR Findings in Ovarian Cancer -- PET/CT with [18F]FDG in Ovarian Cancer -- Clinical Implications of Gynecologic Cancer -- VIII-Gastrointestinal Cancer: Esophagus, Stomach -- Esophageal and Gastric Tumors: Where the Clinician Requires Imaging -- Imaging Findings in Gastrointestinal Cancer: Esophagus, Stomach -- Clinical Implications -- IX-Gastrointestinal Cancer: Solid Organs (Liver Pancreas) -- Introduction to Liver Cancer -- Imaging findings in Liver malignancies -- Clinical Implications of Liver Malignancies -- Introduction to Pancreatic Cancer -- Imaging in Pancreatic Cancer -- Clinical Implications of Pancreatic Cancer -- X-Gastrointestinal Cancer: Peritoneal Cavity -- Introduction to Peritoneal Cavity Carcinoma -- Imaging of Peritoneal Cavity Carcinoma -- XI-Gastrointestinal Cancer: Large Bowel -- Introduction to the Large Bowel -- CT and CT-Colonography -- MR Findings of Rectal Carcinoma -- PET-CT Staging of Rectal Carcinoma -- Clinical Implications of Large Bowel Carcinoma -- XII-Neuroendocrine Tumors -- Introduction to Neuroendocrine Tumors -- Neuroendocrine Tumors -- Clinical Implications of Neuroendocrine Tumors -- XIII-Urogenital Cancer: Adrenal Cancer -- Introduction to Adrenal Cancer -- Ultrasound Findings in Adrenal Cancer -- CT and MRI Findings in Adrenal Cancer -- SPECT in Adrenal Glands -- PET/CT Findings in Adrenal Cancer -- Clinical Implications of Adrenal Cancer -- XIV-Urogenital Cancer: Renal Cancer -- Introduction to Renal Cancer -- US Findings in Renal Cancer -- CT and MRI Findings in Renal Cancer -- PET/CT Findings in Renal Cancer -- Clinical Implications of Renal Cancer -- XV-Urogenital Cancer: Urothelial Cancer -- Introduction to Urothelial Cancer -- US Findings in Urothelial Cancer -- CT and MRI Findings in Urothelial Cancer -- Clinical Implications of Urothelial Cancer -- XVI-Urogenital Cancer: Testicular Cancer -- Introduction to Testicular Cancer -- US Findings in Testicular Cancer -- CT and MRI Findings in Testicular Cancer -- PET/CT Findings in Testicular Cancer -- Clinical Implications in Testicular Cancer -- XVII-Urogenital Cancer: Prostate Cancer -- Introduction to Prostate Cancer -- Endorectal Ultrasound and Prostate Cancer -- MRI in Prostate Cancer -- Nuclear Medicine Findings in Prostate Cancer -- Clinical Implications of Prostate Cancer -- XVIII-Lymphomas -- Introduction to Lymphomas -- Lymphomas: The Role of CT and MRI in Staging and Restaging -- Clinical Implications of the Role of 18FDG-PET/CT in Malignant Lymphomas -- XIX-Multiple Myeloma -- Introduction to multiple myeloma -- Multiple Myeloma: The Role of CT and MRI -- Clinical implications of Multiple myeloma -- XX-Melanoma -- Introduction to Melanoma -- Imaging Findings in Melanoma -- Clinical Implications of Melanoma.

of the art in oncologic imaging research and promoting mutual understanding and collaboration between radiologists and clinical oncologists. It presents all currently available imaging modalities and covers a broad spectrum of oncologic diseases for most organ systems. Today, oncologic imaging faces the challenge of improving and refining concepts for precise tumor delineation and biologic/functional tumor characterization, as well as for purposes of creating individual treatment plans. The concept of radiomics has further advanced the conversion of images into mineable data and subsequent analysis of said data for decision-making support. Since the release of the book's first edition, radiomics has been introduced in oncology studies and can be performed with tomographic images from CT, MRI and PET/CT studies. The combination of radiomic data with genomic features is known as radiogenomics, and can potentially offer additional decision-making support. This book will be of interest to clinical oncologists with regard to the diagnosis, staging, treatment and follow-up on various tumors affecting the CNS, chest, abdomen, urogenital and musculoskeletal systems.
