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Nota di contenuto	Cover; Title; Copyright Page; Contents; Preface; Contributors; Section I: Radiobiology; 1. The Fundamentals of Radiosurgical Radiobiology; Types of Ionizing Radiation; Radiochemistry; Radiobiology; Conclusion; References; Section II: Technology and Techniques of Radiosurgery; 2. Technology and Techniques of Cranial Radiosurgery; Fractionated Radiation Therapy; Intensity-Modulated Radiation Therapy; Stereotactic Radiosurgery; Complications Following Radiotherapy and SRS; Strategies to Prevent Radiation to Critical Structures; Conclusion; References 3. Technology and Techniques for Spinal RadiosurgeryCurrent Technologies/Immobilization; Targeting; Dosing Considerations; Complications / Avoidance Pearls; References; Section III: Radiosurgery for Brain Tumors; 4. Intraparenchymal Tumors; A. Radiosurgery for Primary Brain Tumors; B. Radiosurgery for Brain Metastases; 5. Skull-Base Tumors; A. Radiosurgery for Skull-Base Meningioma; B. Role of Radiosurgery for Hemangiopericytomas; C. Stereotactic Radiosurgery for Glomus Jugulare Tumors; D. Radiosurgery for Vestibular Schwannomas E. Stereotactic Fractionated Radiation Therapy for Optic Nerve Sheath MeningiomasF. Role of Radiosurgery for Sellar Lesions; 6. Imaging Changes Following Radiosurgery for Metastatic Intracranial Tumors: A Review of Differentiating Radiation Effects From Tumor Recurrence;

Imaging Changes After Radiosurgery for Intracranial Tumors; Imaging Changes Seen After Radiosurgery for arteriovenous Malformations; Biology of Imaging Changes After Radiosurgery; Diagnosing and Managing Pseudoprogression; Illustrative Case; Recommendations; Conclusion; References
Section IV: Radiosurgery for Intracranial Vascular Lesions7. Radiosurgery for Arteriovenous Malformations; Classification of AVM; Indications for Radiosurgery for Obliteration of AVM; Imaging and Selection of Radiation Modality; AVM Radiosurgery; Treatment of Small (Less than 3 ML) Lesions; Treatment of Large (Greater than 3 ML) Lesions; Multimodal Treatment; Follow-Up; Complications Following Treatment; Conclusion; References; 8. Role of Radiosurgery for Dural Arteriovenous Fistula; Background; Clinical Presentation and Natural History; Treatment Modalities; Conclusions; Summary Points Illustrated CaseReferences; 9. The Role of Radiosurgery for the Treatment of Cerebral Cavernous Malformations; Epidemiology; Presentation and Natural History; Management of Cerebral Cavernous Malformations; Microsurgical Resection of Cavernous Malformations; Radiosurgery for Cavernous Malformations; Histopathological Effects of Radiosurgery; Effect of Radiosurgery on Risk of Bleeding and Rebleeding; Complications of Radiosurgery for Cavernous Malformations; Radiographic Changes Following Radiosurgery; Radiosurgery for Epilepsy Associated with Cavernous Malformations; Conclusions; References
Section V: Radiosurgery for Functional Diseases

Sommario/riassunto

Handbook of Radiosurgery in CNS Disease is a concise and practical manual offering radiation oncology, neurology, and neurosurgery residents, trainees, fellows, and clinicians up-to-date information on the role of radiosurgery within the overall context of CNS disease management.The emphasis is on decision making and the evaluation of radiosurgery as a viable option among the suite of potentially applicable treatments, including frame-based systems, non-invasive body immobilization, and image-guided targeting. The book examines radiosurgery as a treatment modality for various CNS pathologies,