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Nota di contenuto	Cover; Title; Copyright; Contents; Contributors; Foreword; Preface to the Second Edition; Preface to the First Edition; Acknowledgments; Chapter 1. A Century of Brachytherapy (From the Prostate's Perspective); Brachytherapy: The Prequel; The Radium Industry; The Era of Intracavitary Radium Therapy; The Era of Interstitial Radon; Introduction of Man-Made Radionuclides; Return of the Transperineal Approach and Introduction of Image Guidance; The Incorporation of Sonography; Afterloading, Remote Afterloading, and High Dose Rate Brachytherapy; Computer Dosimetry; Conclusion; Acknowledgments ReferencesChapter 2. Radiobiologic Concepts for Brachytherapy; How is Brachytherapy Different from External Beam Radiotherapy?; Is Dose Heterogeneity Good or Bad in Brachytherapy?; What is Dose Rate?; Does Dose Rate Matter?; What Are / Ratios and Where Do They Come From?; What is Bed and How Does It Matter?; Does Fractionation Matter?; Why Do We Use Different Radionuclides in Different Situations?; What Difference Does It Make to Prescribe at Different Depths?; What are the Four Rs and How Do We/Should We Capitalize on Them?; Repair; Repopulation; Reoxygenation; Reassortment; Vignettes ReferencesChapter 3. Technical Aspects of Brachytherapy; Sources; Permanent Implants; Manual Implants; Image-Guided Prostate

Implants; Temporary Implants; Low Dose Rate; High Dose Rate; Pulsed Dose Rate; Applicators; Fixed Geometry: Vaginal Cylinder; Fixed Geometry: Surface Devices; Variable Geometry: Tandem and Ovoids; Custom Applicators: Surface Applicators; Treatment Planning; Image-Based Treatment Planning; Evaluation; Dosimetric Concerns; Heterogeneity; Transit Dose; Backscatter; Current and Future Developments; Monte Carlo; Special Subjects; Electronic Brachytherapy; Robotic Assistance

VignetteReferences; Chapter 4. Genitourinary Brachytherapy; Patient Selection for Prostate Brachytherapy; Special Populations; Brachytherapy Boost in Intermediate- and High-Risk Disease; Toxicity; Urinary; Rectal; Impotence; Radiation Safety; Medical Events in Prostate Brachytherapy; Ultrasound-Guided Permanent Seed Implantation of the Prostate; Assessment of Prostate Volume and Geometry; Seed Selection; Treatment Planning; Procedure; Preplanning Technique; Intraoperative Technique; Image Acquisition; Implant Techniques; "Save": Sagittally Annealed Vector Evaluation; HELP Loose Seeds
Dosimetric ConstraintsLDR Cases; HDR Brachytherapy; Technique and Outcomes; HDR Cases; Penile Brachytherapy; References; Chapter 5. Gynecologic Brachytherapy; Evaluation of Gynecologic Cancers; Brachytherapy Modalities; Locally Advanced Cervical Cancer; Imaging; Endometrial Cancer; Adjuvant Vaginal Brachytherapy; Medically Inoperable Endometrial Cancer; Vaginal Recurrence of Endometrial Cancer; Primary Vaginal Cancer; Complications; Follow-Up Care; Physics Aspects of Gynecologic Brachytherapy; Contouring and Digitization; Cervical Cancer Treatment Planning
Endometrial Cancer Treatment Planning
