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    Nota di contenuto   Indications for Deep Brain Stimulation Therapy in Parkinson's Disease -- Subthalamic Nucleus Deep Brain Stimulation with Microelectrode Recording Using a Frame -- Subthalamic Nucleus DBS Placement for Parkinson's Disease: Use of the microTargeting frame and Waypoint Stereotactic System with MER Guidance -- Globus Pallidus interna Deep Brain Stimulation: Practical guide to placement with microelectrode recording -- Microelectrode Recording-Based Targeting for Parkinson's Disease Surgery -- MRI-guided DBS for Parkinson's Disease -- Optimizing Deep Brain Stimulation Programming in Parkinson's Disease -- DBS Revision Surgery: Indications and Nuances -- Deep Brain Stimulation: Complications and Management -- Closed Loop Deep Brain Stimulation for Parkinson's Disease -- Is there a role for MRI-guided Focused Ultrasound Lesioning for PD? -- DBS Innovations in the Near Future?.

    Sommario/riassunto This book is designed to provide practicing neurosurgeons with current knowledge on the practical aspects of surgical treatment of patients with Parkinson's disease. It explains how to identify appropriate surgical candidates and determine the optimal surgery, describes the various surgical techniques that are currently employed, and offers insights into how to optimize deep brain stimulation therapy after implantation. The keys to avoidance of surgical complications are

carefully elucidated. In addition, an overview is provided of potential advances on the near-term horizon, including closed-loop deep brain stimulation, gene therapy, optogenetics, and MRI-guided focused ultrasound lesioning. All topics are covered by experienced Parkinson's disease surgeons, in a concise and digestable format. Surgery for Parkinson's Disease serves as an ideal source of information for many practicing neurosurgeons who would like to add deep brain stimulation to their practice, and provides an excellent update on new developments in surgery for Parkinson's disease.