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Nota di contenuto	Contents; Preface; Contributors; Abbreviations; Part 1 - DBS - Surgical techniques; 1 Subthalamic nucleus stimulation in Parkinson's disease; 2 Globus pallidus stimulation; 3 Thalamic stimulation; 4 Pedunculopontine nucleus DBS in advanced Parkinson's disease; Part 2 - DBS - Operative physiological techniques and post-operative stimulator programming; 5 Microelectrode recording and microstimulation for target mapping; 6 Operative physiological techniques: perioperative macroelectrode recording; 7 Test stimulation; 8 DBS stimulator programming; Part 3 - DBS for movement disorders a) Parkinson's disease 9 Selecting appropriate Parkinson's patients for Deep Brain Stimulation (DBS); 10 The long term results of STN stimulation for Parkinson's disease; 11 The long term results of GPi stimulation for Parkinson's disease; 12 Post-STN DBS Parkinson's disease; b) Dystonia; 13 Selecting appropriate dystonic patients for GPi stimulation; 14 The results of GPi stimulation for generalized dystonia; 15 The results of GPi stimulation for focal and segmental dystonia; c) Tremor; 16 Selecting appropriate tremor patients for DBS; 17 The results of DBS for tremor

	Part 4 - DBS for psychiatric conditions 18 Deep brain stimulation for Gilles de la Tourette syndrome; 19 DBS for obsessive-compulsive disorder; 20 Cingulate area 25 DBS for depression; Part 5 - Mathematical modelling of DBS; 21 Modelling approaches to DBS; Appendix - Useful links; Index;
Sommario/riassunto	Deep brain stimulation (DBS) is increasingly used for the treatment of patients with severe Parkinson's disease and other movement disorders, but the technique and science behind it is still poorly understood by most clinicians. This book is intended to provide an overview of the use of deep brain stimulation for movement disorders and provide an introduction to the developing arena of DBS for psychiatric disease. The first part of the book covers the varying surgical techniquesinvolved in implanting electrodes into various deep nuclei within the brain. The neurophysiological techniques involv