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Nota di contenuto	Part I General Section -- 1. The History of Deep Brain Stimulation -- 2. Anatomy of Targets for Deep Brain Stimulation -- 3. Mechanisms of Deep Brain Stimulation -- 4. Surgical and Technical Aspects of Deep Brain Stimulation -- 5. Future Perspectives: Adaptive Deep Brain Stimulation -- 6. Neurophysiology of the Basal Ganglia and Deep Brain Stimulation -- 7. Anaesthesia for Deep Brain Stimulation Surgery -- 8. Programming: General Aspects -- 9. Neuropsychological Assessment -- 10. Ethical Considerations -- 11. Organisation of Care for Patients Treated by Deep Brain Stimulation -- Part II Neurology -- 12. Deep Brain Stimulation for Parkinson's Disease -- 13. Tremor -- 14. Dystonia -- 15. Epilepsy -- 16. Gilles de la Tourette syndrome -- Part III Psychiatry -- 17. Deep Brain Stimulation in Obsessive-Compulsive Disorder -- 18. Deep Brain Stimulation for Depression -- 19. Other

This book deals with a rapidly growing field of medical science: deep brain stimulation (DBS). Influencing deep brain networks by electrical stimulation through implanted electrodes is increasingly applied, and DBS has become a popular treatment for neurological and psychiatric indications. Professionals in the field of DBS are expected to understand classical subjects as disease mechanisms, brain anatomy and function, and clinical symptomatology of the diseases they treat. In addition, they are required to be familiar with specific patient management skills and treatment strategies. A third dimension is hardware and software-related knowledge. Depending on the degree of involvement, professionals need to understand basic or advanced concepts of stimulation protocols. All these aspects of DBS are discussed in this book. Authors from many different disciplines, from many different countries, have contributed their expertise and personal experience to this book. Their contributions reflect the multidisciplinary nature of DBS treatment. This book is written for a wide readership that involves many different professionals and disciplines, including neurologists, neurosurgeons, psychiatrists, neurophysiologists, neuroanatomists, psychologists, rehabilitation specialists, nurses, speech therapists, physiotherapists, engineers and other paramedical disciplines. In our society, where sharing expertise and experience, and global knowledge has become the new standard, patients want the best possible DBS therapy. One prerequisite for this is the presence of a well-integrated and dedicated multidisciplinary team, with up-to-date knowledge of the possibilities of DBS treatment. .

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