1. Record Nr. UNINA9910300201703321

Titolo	Textbook of Neuromodulation : Principles, Methods and Clinical Applications / / edited by Helena Knotkova, Dirk Rasche
Pubbl/distr/stampa	New York, NY : , : Springer New York : , : Imprint : Springer, , 2015
ISBN	1-4939-1408-1
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (284 p.)
Disciplina	610 616.0472 616.0757 616.8
Soggetti	Neurology Psychiatry Pain medicine Nervous system - Radiography Therapeutics Pain Medicine Neuroradiology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Principles of Neuromodulation -- Methods and Technologies for Low-Intensity Transcranial Electrical Stimulation: Waveforms, Terminology, and Historical Notes -- Peripheral Nerve Stimulation -- Spinal Cord Stimulation -- Dorsal Root Ganglion Stimulation: A Target for Neuromodulation Therapies -- Deep Brain Stimulation -- Motor Cortex Stimulation -- Physiological Basis of Transcranial Magnetic Stimulation -- Transcranial Direct Current Stimulation: Protocols and Physiological Mechanisms of Action -- Customization of Transcranial Direct Current Stimulation for Susceptible Populations Including at the Extremes of Age, Obesity, and Stroke -- Cranial Electrical Stimulation -- The Mechanisms and Actions of Motor Imagery Within the Clinical Setting -- Neuroprosthesis and Sensory-Motor Training -- Clinical Applications of Neuromodulation in Psychiatry -- Applications of Neuromodulation in

Pain Management -- Applications of Neuromodulation in Neurology and Neurorehabilitation -- Neuromodulation for Addiction -- Enhancement of Sensory and Cognitive Functions in Healthy Subjects -- Conclusive Overview.

Sommario/riassunto

Textbook of Neuromodulation encompasses the basic principles, methods and current clinical applications of invasive and non-invasive neuromodulation. Neurophysiological systems are reviewed along with the basic principles of neuroplasticity that constitutes the rationale for neuromodulation in human medicine. The overview of the neuromodulatory techniques is provided with special regard to safety and specific patient populations. Comprehensive and authored by leaders in the field, this resource presents the clinical potential, significance and practical applications of this innovative treatment approach.