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Nota di contenuto	Introduction to brain stimulation / Irving M. Reti and Andrew D. Chang -- A balanced mind : a network perspective on mood and motivation brain pathways / Morten L. Kringelbach -- Motor pathways, basal ganglia physiology and pathophysiology / Hagai Bergman, Shiran Katabi, Maya Slovik, Marc Deffains, David Arkadir, Zvi Israel, and Renana Eitan -- Viewing brain stimulation from a plasticity perspective / Jay M. Baraban -- Introduction to convulsive therapy / Richard D. Weiner -- Improving ECT efficacy and decreasing cognitive side-effects / Keith G. Rasmussen -- How does electroconvulsive therapy work? / Irving M. Reti -- Magnetic seizure therapy for the treatment of depression / Sarah Hollingsworth Lisanby, Zhi-De Deng -- Introduction to non-convulsive brain stimulation : focus on transcranial magnetic stimulation / Masashi Hamada and John C. Rothwell -- Advances in transcranial magnetic stimulation technology / Angel V. Peterchev, Zhi-De Deng, Stefan M. Goetz -- Applications of TMS to study brain connectivity / Gabriela Cantarero and Pablo Celnik -- Therapeutic applications of rTMS for psychiatric and neurological conditions / Mark S. George, E. Baron Short, Suzanne E. Kerns, Xingbao Li, Colleen Hanlon, Christopher Pelic, Joseph J. Taylor, Bashar W. Badran, Jeffrey J.

Borckardt, Nolan Williams, James Fox -- Transcranial direct current stimulation : modulation of brain pathways and potential clinical applications / Michael A. Nitsche, R. Polania, M.-F. Kuo -- Epidural cortical stimulation / Ziad Nahas -- Neurological indications for deep brain stimulation / Jennifer J. Cheng, William S. Anderson, Frederick A. Lenz -- Psychiatric indications for deep brain stimulation / Reinier Prose, Damiaan Denys -- Vagus nerve stimulation for epilepsy and depression / Charles R. Conway, Mark A. Colijn, Steven C. Schachter.

Sommario/riassunto

Brain stimulation technologies are both tools to probe brain function and to provide therapeutic options for patients with neuropsychiatric disease where pharmacological options are not viable. Although the field has been in existence for over seventy years, research interest in brain stimulation has been on the rise particularly in the last two decades. Brain Stimulation: Methodologies and Interventions is an introduction to the field of brain stimulation technology and its applications. The book explores how brain stimulating technologies work in the context of brain pathways that mediate
