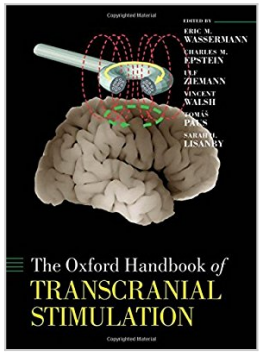

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Since becoming commercially available in 1985, transcranial magnetic stimulation (TMS) has emerged as an important tool in several areas of neuroscience. Originally envisioned as a way to measure the responsiveness and conduction speed of neurons and synapses in the brain and spinal cord, TMS has also become an important tool for changing the activity of brain neurons and the functions they subserve and as important adjunct to brain imaging and mapping techniques. Along with transcranial electrical stimulation techniques, TMS has diffused far beyond the borders of clinical neurophysiology and into cognitive, perceptual, behavioral, and therapeutic investigation and attracted a highly diverse group of users and would-be users.

This book provides an authoritative review of the scientific and technical background required to understand transcranial stimulation techniques and a wide-ranging survey of their burgeoning application in neurophysiology, perception, cognition, emotion, and the clinic. Each of its six sections deals with a major area and is edited by an international authority therein. It will serve researchers, clinicians, students, and others as the definitive text in this area for years to come.

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Editorial Review

About the Author
Dr. Wassermann is a clinical neurologist and neurophysiologist and a leading expert in the uses of transcranial brain stimulation to measure and modulate brain function. His research interests include neurobehavioral disorders and the control of action and emotion by the frontal lobe. He heads the Brain Stimulation Unit at the National Institute of Neurological Disorders and Stroke and serves as a Senior Medical Advisor on chemical terrorism in the Office of the U.S. Secretary of Health and Human Services. The rest of the time, he can be found sailing or at home with his family. Tomas Paus is Professor and Chair in Developmental Cognitive Neuroscience at the University of Nottingham, and Adjunct Professor in the Dept of Neurology & Neurosurgery and the Dept of Psychology at McGill University in Montreal, Canada. His research concerns the structural and functional organization of the human cerebral cortex and its maturation during adolescence. The main strategies employed in this research are: (1) in vivo morphometry using structural magnetic-resonance imaging; (2) in vivo assessment of cortical connectivity and excitability with transcranial magnetic stimulation combined with brain imaging; and (3) multi-modal mapping of brain-behaviour relationships in the adult and adolescent brain. Prof. Paus is an elected member of the International Neuropsychology Symposium, served on the Governing Council of the Organization for Human Brain Mapping and currently serves as the President of the International Society for Behavioural Neuroscience. Sarah H. Lisanby, MD, is Associate Professor of Clinical Psychiatry at Columbia University. In addition, she is Director of the Division of Brain Stimulation and Therapeutic Modulation at the New York State Psychiatric Institute, head of the Transcranial Magnetic Stimulation (TMS) Unit in the fMRI Research Center at Columbia, and the New York Presbyterian Hospital Brain Stimulation Service. She is also Director of the Brain Behavior Clinic at NYSPI.

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