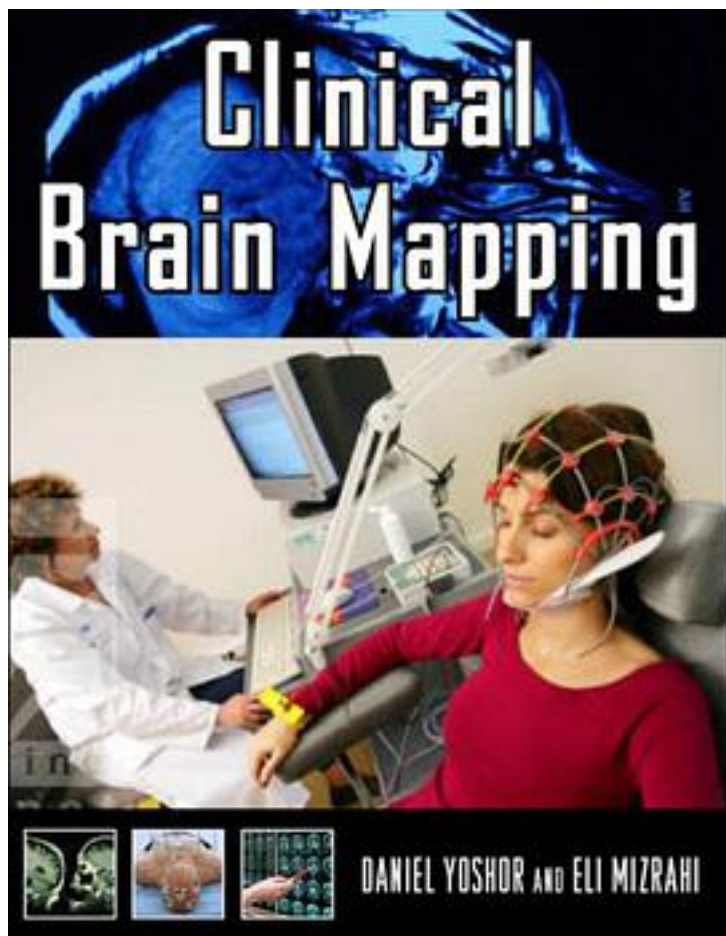


Clinical Brain Mapping



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This is the most accessible, clinically focused guide to brain mapping techniques and systems. This profusely illustrated, concise, yet detailed sourcebook enables both neurosurgeons and neurologists to map functions to specific cognitive and sensory

locations in the brain. "Clinical Brain Mapping" takes you step by step through the methods and functional bases of the techniques, focusing on all clinical situations that require cerebral localization for diagnosis and therapeutic management. "Clinical Brain Mapping" is cohesively organized into two sections: Techniques and Systems. The first section covers the full scope of methods for determining cerebral location, from the classic Wada test to the newest fMRI and magnetoencephalography procedures. In the Systems section, expert contributors offer key insights into the systems that are mapped with a multi-modality approach, covering somatomotor and somatosensory function, language, vision, hearing, and memory. The book concludes with informative chapters on specific applications of mapping techniques. The features of this title include: 350 radiologic images and EEG tracings that show each brain mapping technique, adding depth and clarity to chapter material Multi-modal approach focuses on a wide array of clinical concerns and corresponding methods, including: Operative anatomy and structural neuroimaging; Functional MRI and magnetoencephalography; Optical imaging; Neuropsychological testing and the Wada test; Extraoperative brain mapping; and, Electrographic spectral analysis.

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