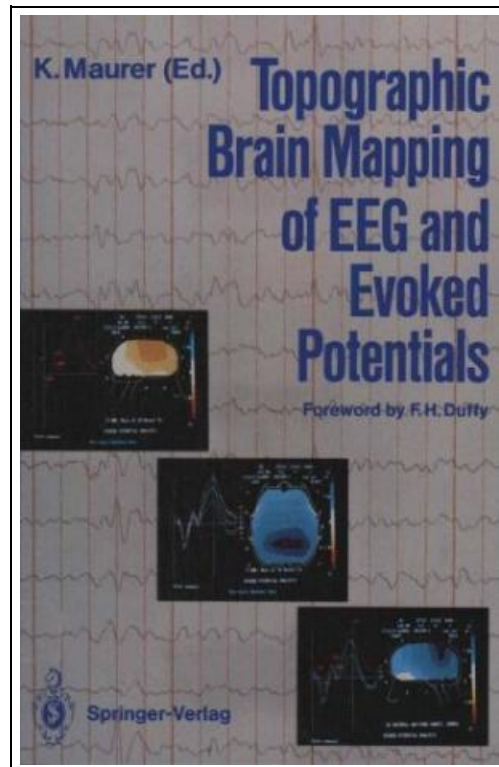


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TOPOGRAPHIC BRAIN MAPPING OF EEG AND EVOKED POTENTIALS



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Condition: New. Publisher/Verlag: Springer, Berlin | Imaging procedures have been used for many years and are becoming increasingly important in a number of medical disciplines. This is due to recent technological advances, primarily computerization. The methods employed in CNS diagnostics are collectively referred to as "neuroimaging" and include procedures for investigating both cerebral morphology and cerebral function, such as computed tomography (CT), magnetic resonance imaging (MRI), positron emission tomography (PET), and single-photon emission computed tomography (SPECT). Topographic mapping of electroencephalograms (EEG) and evoked potentials represents one of the functional procedures and permits topographic imaging of EEG, evoked potentials, and magnetic fields. The latter application includes not only magnetic fields evoked by stimuli relating to different sensory modalities, but also endogenous and motor fields resulting from spontaneous brain magnetic activity, as recorded by magnetoencephalograms (MEG), the magnetic complement of the EEG. The advantage of recording electric and magnetic fields over other neuroimaging procedures is that these techniques are completely noninvasive and have extremely short analysis times (in the millisecond range). The aim of this book is to clarify the current state of this emerging technology, to assess its potential for substantive contributions to brain research, to delineate areas for further research and, over all, to envisage clinical applications in disciplines such as psychiatry, neurology, and neuropsychology. | 'Section I State of the Art.- Establishment of Guidelines for the Use of Topographic Mapping in Clinical Neurophysiology: A Philosophical Approach.- From Grapheme to Topos: Past and Future of Brain Mapping.- Topographic Mapping of Brain Electrical Activity: Clinical Applications and Issues.- From Mapping to the Analysis and Interpretation of EEG/EP Maps.- Topographic Mapping of Generators of Somatosensory Evoked Potentials.- Neurometric Topographic Mapping of EEG and Evoked Potential Features: Application to Clinical Diagnosis and Cognitive Evaluation.- Advances in Brain Theory Give...



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