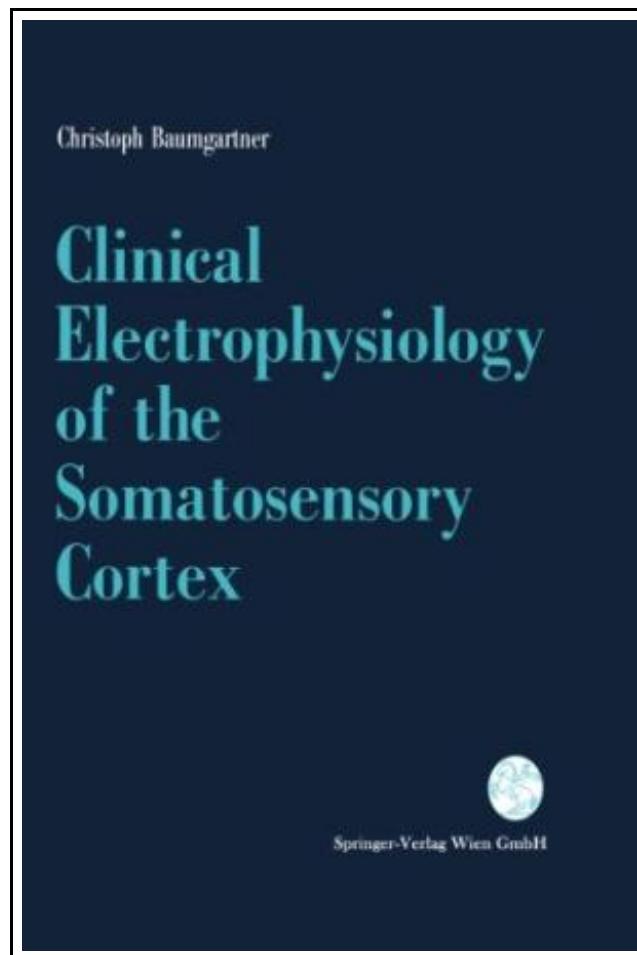


Clinical Electrophysiology of the Somatosensory Cortex



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Book Condition: New. Publisher/Verlag: Springer, Wien | A Combined Study Using Electrocorticography, Scalp-EEG, and Magnetencephalography | The clinical electrophysiology of the human somatosensory cortex was investigated with a combined approach using cortical stimulations and somatosensory evoked responses on electrocorticography, scalp-EEG, and magnetoencephalography, a new neurophysiological technique. The spatiotemporal structure of the evoked response was studied with novel biophysical modeling techniques which allowed identification of the three-dimensional intracerebral location, time activity, and interaction of the neuronal sources in human somatosensory cortex. Thus, new aspects on the functional anatomy of the human somatosensory cortex could be elicited. Furthermore, the somatotopy of the hand somatosensory cortex was investigated. Clinically, the results of comparison of the different techniques can improve the non-invasive localization criteria for primary motor and somatosensory cortex which is important in patients undergoing neurosurgical procedure adjacent to central fissure. Die funktionelle Organisation und Somatotopik des menschlichen somatosensorischen Kortex wurde mittels kortikaler Stimulationen und mittels somatosensorisch evozierter Potentiale in der Elektrokortikographie, im Oberflächen-EEG und in der Magnetoencephalographie - einer neuen neurophysiologischen Methode - untersucht. Neue Aspekte betreffend die Physiologie und die nicht-invasive Lokalisation des somatosensorischen Kortex werden diskutiert. The functional anatomy of human somatosensory cortex is of both scientific and clinical interest. Scientifically, it provides insights in information processing in the human brain. Clinically, it helps to avoid neurological deficits by sparing essential brain regions during neurosurgical procedures adjacent to central fissure. In the present study the functional organization of the human somatosensory cortex was investigated with electrophysiological techniques using a combined approach of cortical stimulations and somatosensory evoked responses on electrocorticography, scalp-EEG, and magnetoencephalography. The spatiotemporal structure of the evoked response was studied with biophysical modeling techniques which allowed identification of the three-dimensional intracerebral location, time activity, and interaction of the neuronal sources activated following peripheral somatosensory stimulation. Furthermore, the somatotopic organization of hand...



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