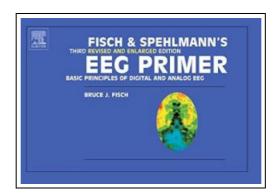
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1. The source of the EEG. 1.1 The generator of the EEG. 1.2 Rhythmical EEG activity. 1.3 Recording of electrical potentials with scalp electrodes. 2. Recording electrodes. 2.1 Electrode shapes and application methods. 2.2 Electrical properties of recording electrodes. 2.3 Electrode placement. 2.4 Recording non-cerebral potentials. 3. Digital and analog EEG instruments: parts and functions. Introduction. 3.1 The electrode panel. 3.2. Analog EEG instrument input selector switches. 3.3 Analog and digital calibration. 3.4 Amplifiers. 3.5 Filters. 3.6 Analog writing units. 3.7 Analog to digital conversion. 3.8 The signal display. 3.9 Digital filtering. 3.10 Digital montage selection and montage reformatting. 3.11 Digital data storage and transmission. 3.12 Electrical safety. 4. Spatial analysis of the EEG. 4.1 Multichannel recordings. 4.2 Bipolar montages. 4.3 Common electrode reference montages. 4.4 Average reference montages. 4.5 Weighted average montages. 4.6 Laplacian montages. 4.7 Source localization. 4.8 Montage display and design. 4.9 Analysis of the topography of the EEG voltage field. 4.10 Summary. 5. The product of the recording: the clinical EEG record. 5.1 General technical standards. 5.2 Standards for pediatric recordings. 5.3 Standards for recordings in cases of suspected cerebral death. 5.4 Telephone transmission. 6. Artifacts. 6.1 Artifacts from the patient. 6.2 Interference. 6.3 Artifacts arising from recording electrodes and equipment. 7. Special methods of analysis and recording. 7.1 Quantitative EEG analysis. 7.2 Topographic mapping. 7.3 Automated event detection. 7.4 Intraoperative and intensive care unit monitoring. 7.5 Ambulatory EEG recording. 7.6 EEG recording with simultaneous video monitoring. Part B: The normal EEG. 8. Definition of the normal EEG does not always mean normal brain function. 8.3 An abnormal EEG does not necessarily...



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