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| Nota di contenuto | CONTENTS; CONTRIBUTORS; SECTION 1. ANALYSIS OF ELECTROPHYSIOLOGIC WAVEFORMS; 1. ELECTRICITY AND ELECTRONICS FOR CLINICAL NEUROPHYSIOLOGY; BASIC PRINCIPLES AND DEFINITIONS IN ELECTRICITY; CIRCUIT ANALYSIS; RESISTIVE-CAPACITIVE AND RESISTIVE-INDUCTIVE CIRCUITS; CIRCUITS CONTAINING INDUCTORS AND CAPACITORS; FILTER CIRCUITS; TRANSISTORS AND AMPLIFIERS; 2. ELECTRIC SAFETY IN THE LABORATORY AND HOSPITAL; ELECTRIC POWER DISTRIBUTION SYSTEMS; ELECTRIC SHOCK; LEAKAGE CURRENT; ELECTRIC SAFETY PRINCIPLES AND IMPLEMENTATION; 3. VOLUME CONDUCTION; PRINCIPLES; ELECTRIC PROPERTIES OF VOLUME CONDUCTORS<br>CALCULATING POTENTIALS IN INFINITE HOMOGENEOUS MEDIAPOTENTIALS IN NONHOMOGENEOUS MEDIA; APPLICATIONS OF VOLUME CONDUCTION PRINCIPLES; 4. DIGITAL SIGNAL PROCESSING; DIGITAL COMPUTERS IN CLINICAL NEUROPHYSIOLOGY; DIGITIZATION; |

COMMON USES OF DIGITAL PROCESSING; AVERAGING; DIGITAL FILTERING; TIME AND FREQUENCY DOMAIN ANALYSIS; 5. ELECTROPHYSIOLOGIC GENERATORS IN CLINICAL NEUROPHYSIOLOGY; PHYSIOLOGIC GENERATORS; STRUCTURAL GENERATORS; 6. CLASSIFICATION OF WAVEFORM CHARACTERISTICS; CONTINUOUS WAVEFORMS; EVENT RECORDING; 7. ALTERATION OF WAVEFORMS AND ARTIFACTS; PHYSIOLOGIC ALTERATION OF WAVEFORMS ARTIFACTUAL WAVEFORMSSECTION 2. ELECTROPHYSIOLOGIC ASSESSMENT OF NEURAL FUNCTION; Part A. Cortical Function; 8. ELECTROENCEPHALOGRAPHY: GENERAL PRINCIPLES AND ADULT ELECTROENCEPHALOGRAMS; 9. ELECTROENCEPHALOGRAPHY: ELECTROENCEPHALOGRAMS OF NEONATES, INFANTS, AND CHILDREN; 10. AMBULATORY ELECTROENCEPHALOGRAPHY; 11. PROLONGED VIDEO ELECTROENCEPHALOGRAPHY; 12. ELECTROENCEPHALOGRAPHIC SPECIAL STUDIES; 13. ELECTROENCEPHALOGRAPHIC RECORDINGS FOR EPILEPSY SURGERY; 14. MOVEMENT-RELATED POTENTIALS AND EVENT-RELATED POTENTIALS; Part B. Sensory Pathways; 15. NERVE ACTION POTENTIALS
16. SOMATOSENSORY EVOKED POTENTIALS17. BRAIN STEM AUDITORY EVOKED POTENTIALS IN CENTRAL DISORDERS; 18. AUDIOGRAM, ACOUSTIC REFLEXES, AND EVOKED OTOACOUSTIC EMISSIONS; 19. BRAIN STEM AUDITORY EVOKED POTENTIALS IN PERIPHERAL ACOUSTIC DISORDERS; 20. VISUAL EVOKED POTENTIALS; Part C. Motor Pathways; 21. COMPOUND MUSCLE ACTION POTENTIALS; 22. ASSESSING THE NEUROMUSCULAR JUNCTION WITH REPETITIVE STIMULATION STUDIES; 23. MOTOR EVOKED POTENTIALS; Part D. Assessing the Motor Unit; 24. ASSESSING THE MOTOR UNIT WITH NEEDLE ELECTROMYOGRAPHY; 25. QUANTITATIVE ELECTROMYOGRAPHY
26. SINGLE FIBER ELECTROMYOGRAPHY27. ESTIMATING THE NUMBER OF MOTOR UNITS IN A MUSCLE; Part E. Reflexes and Central Motor Control; 28. H REFLEXES; 29. CRANIAL REFLEXES; 30. LONG LATENCY REFLEXES AND THE SILENT PERIOD; 31. SURFACE ELECTROMYOGRAPHIC STUDIES OF MOVEMENT DISORDERS; 32. VERTIGO AND BALANCE; Part F. Autonomic Function; 33. CLINICAL PHYSIOLOGY OF THE AUTONOMIC NERVOUS SYSTEM; 34. QUANTITATIVE SUDOMOTOR AXON REFLEX TEST AND RELATED TESTS; 35. ADRENERGIC FUNCTION; 36. THERMOREGULATORY SWEAT TEST; 37. CARDIOVAGAL AND OTHER REFLEXES; 38. ELECTROPHYSIOLOGY OF PAIN
Part G. Sleep and Consciousness

Sommario/riassunto

This text covers the entire range of electrophysiologic measures that can be used in the diagnosis and monitoring of neurologic diseases. It brings together EMG, EEG, evoked potentials, autonomic nervous system testing, sleep, surgical monitoring, motor control, vestibular testing and magnetic stimulation into a single volume.