

1. Record Nr.	UNINA9910785280003321
Titolo	Clinical neurophysiology [[electronic resource] /] / edited by Jasper R. Daube, Devon I. Rubin
Pubbl/distr/stampa	Oxford ; ; New York, : Oxford University Press, 2009
ISBN	0-19-932277-5 1-282-73613-2 9786612736131 0-19-972514-4
Edizione	[3rd ed.]
Descrizione fisica	1 online resource (915 p.)
Collana	Contemporary neurology series ; ; 75
Altri autori (Persone)	DaubeJasper R RubinDevon I
Disciplina	616.8/047547
Soggetti	Electroencephalography Electromyography Nervous system - Diseases - Diagnosis Evoked potentials (Electrophysiology) Neurophysiology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	""Contents""; ""Contributors""; ""SECTION 1 BASIC NEUROPHYSIOLOGY AND AN INTRODUCTION TO 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""; ""INTRODUCTION""; ""ELECTRIC POWER DISTRIBUTION SYSTEMS""; ""ELECTRIC SHOCK""; ""LEAKAGE CURRENT""; ""ELECTRIC SAFETY PRINCIPLES AND IMPLEMENTATION""; ""ELECTRIC STIMULATION SAFETY""; ""3. VOLUME CONDUCTION""; ""PRINCIPLES""; ""SOURCES OF ELECTRICAL POTENTIALS""; ""CURRENT SOURCES: MONOPOLES, DIPOLES, AND QUADRUPOLES""; ""VOLUME CONDUCTION THEORY: ELECTRIC PROPERTIES IN VOLUME CONDUCTORS"";

""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. BASICS OF NEUROPHYSIOLOGY""; ""INTRODUCTION"""; ""CELL MEMBRANE""; ""RESTING POTENTIAL""; ""LOCAL POTENTIALS""; ""ACTION POTENTIALS""; ""SYNAPTIC TRANSMISSION""; ""CLINICAL CORRELATIONS""; ""6. ELECTROPHYSIOLOGIC GENERATORS IN CLINICAL NEUROPHYSIOLOGY""; ""STRUCTURAL GENERATORS""; ""7. WAVEFORMS AND ARTIFACTS""; ""INTRODUCTION""; ""CONTINUOUS WAVEFORMS""; ""EVENT RECORDING""; ""COMBINATIONS OF CONTINUOUS WAVEFORMS AND EVENTS""; ""WAVEFORM ALTERATIONS""; ""PHYSIOLOGIC ALTERATION OF WAVEFORMS""; ""ARTIFACTUAL WAVEFORMS""; ""SECTION 2 ELECTROPHYSIOLOGIC ASSESSMENT OF NEURAL FUNCTION""; ""Part A: Assessment of Cortical Function""""8. ELECTROENCEPHALOGRAPHY: ADULT, NORMAL, AND BENIGN VARIANTS""; ""INTRODUCTION""; ""RECORDING THE ELECTROENCEPHALOGRAM""; ""DISPLAY OF EEG ACTIVITY""; ""ACTIVATION PROCEDURES""; ""ARTIFACTS""; ""NORMAL EEG ACTIVITY OF ADULTS""; ""BENIGN VARIANTS""; ""9. EPILEPTIFORM ACTIVITY""; ""INTRODUCTION AND OVERVIEW OF EPILEPTIFORM ACTIVITY""; ""SPECIFIC FOCAL INTERICTAL DISCHARGES""; ""GENERALIZED EPILEPTIFORM PATTERNS""; ""ICTAL DISCHARGES""; ""EPILEPTIFORM ACTIVITY WITH A POTENTIAL SEIZURE ASSOCIATION""; ""10. ADULT EEG: ABNORMAL NONEPILEPTIFORM ACTIVITY""; ""INTRODUCTION""; ""TYPES OF EEG ABNORMALITIES""; ""FOCAL INTRACRANIAL PROCESSES CAUSING EEG ABNORMALITIES""; ""ELECTROENCEPHALOGRAPHIC MANIFESTATIONS OF DIFFUSE DISORDERS""; ""EVALUATION FOR SUSPECTED BRAIN DEATH""; ""11. ELECTROENCEPHALOGRAPHY: ELECTROENCEPHALOGRAMS OF INFANTS AND CHILDREN""; ""INTRODUCTION""; ""NEONATAL EEG PATTERNS""; ""DEVELOPMENTAL CHANGES DURING INFANCY, CHILDHOOD, AND ADOLESCENCE""; ""BENIGN VARIANTS IN CHILDREN""; ""ABNORMALITIES""; ""12. AMBULATORY ELECTROENCEPHALOGRAPHY""; ""INTRODUCTION""; ""INDICATIONS""; ""TECHNOLOGY""

Sommario/riassunto

This resource provides a didactic, yet accessible, presentation of electrophysiology that describes the analysis of electrophysiological waveforms, the various methods and techniques of electrophysiological testing, and recommendations of symptom complexes and disease entities using electroencephalography, evoked potentials, and nerve conduction studies.
