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Nota di contenuto	Cover; Title; Copyright; Contents; Foreword; Preface to the Second Edition; Reference; Preface to the First Edition; Part I: Basic Concepts in Electrodiagnostic Medicine; Chapter 1: Basic Electronics; Electricity; Capacitors; Electrical Circuits; Magnetism; Inductors; Alternating Current; Key Points; References; Chapter 2: Instrumentation; Amplifiers; Diodes; Transistors; Differential Amplifiers; The Display; Averaging; Trigger and Delay; Stimulation; The Electromyograph; Other Features; Key Points; References; Chapter 3: Anatomy and Physiology of the Neuromuscular System Anatomy of the Motor UnitGross Anatomy; Upper Extremity Nerves; Lower Extremity Nerves; Key Points; References; Chapter 4: Membrane Physiology and Volume Conduction; The Resting Membrane Potential; Other Biophysical and Electrical Properties of the Membrane; The Action Potential; Threshold; Conduction Along Nerve and Muscle Fibers; Volume Conduction; Key Points; References; Chapter 5: Statistics; Deriving Reference Values; The Mean and Standard Deviation Method for Establishing Reference Values; The Problem of Multiple Tests; The Importance of Consistent Technique; Glossary; Key Points ReferencesChapter 6: Safety Considerations in Electrodiagnostic Medicine; Electrical Safety; Electrically Sensitive Patients; Bleeding; Pain; Universal Precautions; Miscellaneous; Key Points; References; Chapter

7: Nerve Conduction Studies; Motor Conduction Studies; Sensory Conduction Studies; Late Responses; Utility of the F Wave; Utility of the H Reflex; Automated Nerve Conduction Studies; Clinical Correlation; Key Points; References; Chapter 8: The Needle Electrode Examination; Needle Electrodes; General Principles; Needle Electrode Examination in Normal Muscle; Insertional Activity
Spontaneous Activity Voluntary Activity; The Normal MUAP; Recruitment; Needle Electrode Examination in Abnormal Muscle; Abnormal Insertional and Spontaneous Activity; Abnormal Voluntary Activity; Involuntary Activity; Key Points; References; Chapter 9: Special Electrodiagnostic Medicine Techniques and Procedures; Blink Reflexes; Repetitive Nerve Stimulation (RNS) Studies; Proximal Nerve Stimulation Techniques; Short Segment Studies; Autonomic Function Testing; Intraoperative Electrodiagnosis; Evaluation of the Respiratory System; Special Needle Electrode Examination Methods; Key Points
References Chapter 10: Tips, Tricks, and Traps in Electrodiagnostic Medicine; Nerve Conduction Studies; Stimulation Pitfalls; Recording Electrode Placement Pitfalls; Dips and Pseudodips; Volume Conduction; Gains, Sweeps and Filters; Physiologic Factors; Pitfalls of Needle Electrode Examination (NEE); Key Points; References; Chapter 11: An Overview of Electrodiagnostic Findings in Neuromuscular Disorders; Neuronopathy; Plexopathy; Radiculopathy; Neuropathy; Neuromuscular Transmission (NMT) Disorders; Myopathy; Continuous Motor Unit Activity (CMUA) Syndromes; Key Points; References
Chapter 12: The Electrodiagnostic Medicine Consultation

Sommario/riassunto

This concise, clearly written, practical book provides a complete overview of clinical electrodiagnostic medicine. Essentials of Electrodiagnostic Medicine is an intermediate level text for residents, fellows, and practitioners in neurology and psychiatry. This practical book is readable in the course of a standard resident rotation and ideal for board exam review, while also comprehensive enough to be a useful reference. The second edition has been thoroughly updated throughout while retaining the key features of the first edition. Essentials of Electrodiagnostic Medicine is divided into two p
