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Titolo	Principles of Neurophysiological Assessment, Mapping, and Monitoring / / edited by Alan David Kaye, Scott Francis Davis
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ISBN	1-4614-8942-3
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Descrizione fisica	1 online resource (280 p.)
Disciplina	617.48
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. Introduction to the Operating Room -- 2. Anatomy of Intraoperative Monitoring -- 3. Cellular Neurophysiology -- 4. Electrophysiology and Bioinstrumentation -- 5. Anesthesiology and Intraoperative Electrophysiological Monitoring -- 6. Somatosensory Evoked Potential Monitoring -- 7. Motor Evoked Potentials -- 8. Electromyography (EMG) -- 9. Brainstem Auditory Evoked Potentials -- 10. Electroencephalography -- 11. The H-Reflex and F-Response -- 12. Monitoring Procedures of the Spine -- 13. Intraoperative Monitoring for Surgery of the Spinal Cord and Cauda Equina -- 14. Monitoring Posterior Fossa Craniotomies -- 15. Intraoperative Monitoring for Carotid Endarterectomy -- 16. Monitoring for ENT Procedures -- 17. Peripheral Nerve Monitoring -- 18. Intraoperative Cortical Mapping: Basic Concepts, Indications, and Anesthesia Considerations -- 19. Neurological Assessment and Correlation in Spinal Cord Nerve Root Pathology -- 20. Electrophysiological Assessment of Spinal Cord Pathology in Pain Medicine -- 21. Spinal Cord Stimulation: Principles and Applications -- 22. New Vistas: Small-Pain-Fibers Method of Testing for Spinal Cord Assessment in Pain States.
Sommario/riassunto	This book provides foundational knowledge of intraoperative

monitoring (IOM) and is written for the range of clinicians who monitor the function of the nervous system during surgery, from new technologists to neurophysiologists and neurosurgeons. Early chapters describe the building blocks of IOM in accessible terms and are followed by practical chapters on monitoring and mapping that show basic and clinical science “in action”. Anesthesiologists and trainees with an interest in diagnosing and managing pain will appreciate the inclusion of chapters on the electrophysiological assessment of spinal cord pathology and on the treatment of pain. Principles of Neurophysiological Assessment, Mapping, and Monitoring is designed for use as a text in academic courses or in corporate training programs. It also provides a concise refresher for experienced clinicians and for physicians, neurophysiologists, and technologists preparing for board exams.