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Nota di contenuto	SECTION I. Monitoring Techniques -- 1. Somatosensory-Evoked Potentials -- 2. Transcranial Motor-Evoked Potentials -- 3. Auditory-Evoked Potentials -- 4. Visual-Evoked Potentials -- 5. Deep Brain Stimulation -- 6. Monitoring of Spinal Cord Functions -- 7. Electromyography -- 8. The Use of Reflex Responses for IOM -- 9. Brain and Spinal Cord Mapping -- 10. EEG Monitoring -- 11. Clinical Application of Raw and Processed EEG -- 12. A Guide to Central Nervous System Near-Infrared Spectroscopic Monitoring -- 13. Transcranial Doppler Ultrasound -- 14. Monitoring of Jugular Venous Oxygen Saturation -- 15. Intracranial Pressure Monitoring -- 16. IOM Instrumentation Layout and Electrical Interference -- 17. Signal Optimization in Intraoperative Neuromonitoring -- SECTION II. Anesthesia Considerations -- 18. Anesthesia for Awake Neurosurgery -- 19. Anesthesia Management and Intraoperative Electrophysiological Monitoring -- SECTION III. Clinical Applications -- 20. Monitoring Applications and Evaluating Changes -- 21. Intraoperative Neurophysiological Monitoring for Intracranial Aneurysm Surgery -- 22. Intracranial Arteriovenous Malformation Surgery -- 23. Intraoperative

Neurophysiologic Monitoring During Surgery for Supratentorial Mass Lesions -- 24. Surgery for Infratentorial Mass -- 25. Trigeminal Microvascular Decompression -- 26. Surgery for Hemifacial Spasm -- 27. Skull Base Surgery -- 28. Surgery for Chiari Type I Malformation -- 29. ENT and Anterior Neck Surgery -- 30. Carotid Surgery -- 31. Anterior Cervical Spine Surgery -- 32. Posterior Cervical Spine Surgery -- 33. Surgery for Scoliosis Correction -- 34. Neurophysiological Monitoring in Thoracic Spine Surgery -- 35. Intraoperative Neurophysiologic Monitoring for Lumbo-Sacral Spine Procedures -- 36. Intramedullary Spinal Cord Surgery -- 37. Intraoperative Monitoring in Tethered Cord Surgery -- 38. Surgery in the Peripheral Nervous System -- 39. Surgery of the Aortic Arch -- 40. Electrophysiological Monitoring During Thoracic Aortic Aneurysm Surgery -- 41. Monitoring During Cardiopulmonary Bypass -- 42. Interventional Neuroradiology -- 43. Intra-operative Neuromonitoring in Pediatric Surgery -- SECTION IV. Intensive Care -- 44. Monitoring in the Intensive Care Unit -- 45. Epilepsy and Seizures: OR and ICU Applications of EEG -- 46. Monitoring Cerebral Blood Flow.

Sommario/riassunto

This widely praised, first-of-its-kind book has been thoroughly updated, expanded, and enriched with extensive new case material, illustrations, and link-outs to multimedia, practice guidelines, and more. Written and edited by outstanding world experts, this was the first and remains the leading single-source volume on intraoperative neurophysiological monitoring (IOM). It is aimed at graduate students and trainees, as well as members of the operative team, including anesthesiologists, technologists, neurophysiologists, surgeons, and nurses. Now commonplace in procedures that place the nervous system at risk, such as orthopedics, neurosurgery, otologic surgery, vascular surgery, and others, effective IOM requires an unusually high degree of coordination among members of the operative team. The purpose of the book is to help students, trainees, and team members acquire a better understanding of one another's roles and thereby to improve the quality of care and patient safety. From the reviews of the First Edition: "A welcome addition to reference works devoted to the expanding field of nervous system monitoring in the intraoperative period... will serve as a useful guide for many different health care professionals and particularly for anesthesiologists involved with this monitoring modality...An excellent reference...[and] a helpful guide both to the novice and to the developing expert in this field." *Canadian Journal of Anesthesia* "Impressive... [The book] is well written, indexed, and illustrated...The chapters are all extensively referenced. It is also very good value at the price....I would recommend this book to all residents and especially to all neuroanesthesiologists. It will make a worthwhile addition to their library." *Journal of Neurosurgical Anesthesiology*.
