This book, authored by a neurosurgeon with contributions from experts in neurology, vascular neurology, interventional neuroradiology, anesthesiology, critical care, traumatology, nutrition, and advanced practice nursing, reflects the new paradigm of neurocritical care as an increasingly multidisciplinary field. Neuromonitoring advances have enabled customized interventions tailored to each patient’s unique circumstances. The critical care of neurosurgical patients has evolved from an emphasis on pulmonary care (ventilation and oxygenation) to a more nuanced understanding of cerebral protection measures required to manage a disrupted blood-brain-barrier. This edition encompasses advances in the use of ICP monitors, external ventricular devices, brain tissue oxygen monitoring devices, cerebral microdialysis, fluid and electrolyte correction, as well as the increasing use of continuous EEG in the ICU.
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