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Nota di contenuto	Intro -- Foreword -- Foreword -- Preface -- Contents -- Contributors -- Part I: Regional Anesthesia -- 1: Basic Science: Principles of Ultrasound: Obtaining an Image, Resolution, Depth, Frequency, Resonance -- Introduction -- Physics of Ultrasound -- Echogenicity -- Display Modes -- Common Types of Ultrasound Artifacts -- Clinical Pearls -- Questions -- Answers -- References -- Further Reading -- 2: Basic Science: Local Anesthetics and Adjuvants for Nerve Blocks -- Introduction -- Mechanism of Action and Properties -- Absorption, Metabolism, and Excretion -- Allergic Reactions -- Preservatives/Additives -- Clinical Uses of Local Anesthetics -- Peripheral Nerve Block Dosing -- Special Considerations for Local Anesthetics -- Ester Local Anesthetics (Has One 'I') -- Chloroprocaine -- Tetracaine -- Benzocaine -- Prilocaine -- Amide Local Anesthetics (Has Two 'II') -- Mepivacaine -- Lidocaine -- Bupivacaine -- Liposomal Bupivacaine -- Levobupivacaine -- Ropivacaine -- Questions -- Answers -- References -- 3: Acute Postoperative Pain: Patient-Controlled Analgesia -- Introduction -- Background -- Indications -- Relative Contraindications -- Technique -- Preventive Measures to Avoid Complications -- IV PCA Versus PCEA -- Clinical Pearls --

Questions -- Answers -- References -- 4: Acute Postoperative Pain: Regional Versus General Anesthesia -- Introduction -- Benefits of Regional Anesthesia (RA) -- Disadvantages of Regional Anesthesia -- Clinical Pearls -- Questions -- Answers -- References -- 5: Acute Postoperative Pain: Pediatric Regional Anesthesia -- Introduction -- Anatomy and Physiology -- Spinal Canal -- Bones -- Nerves -- Connective Tissue -- Pharmacology -- Neonates and Infants -- Local Anesthetic Choice -- Adjuvants -- Controversies -- General Anesthesia -- Compartment Syndrome -- Safety -- Aseptic Precautions. Local Anesthetic Systemic Toxicity -- Informed Consent -- Specific Blocks -- Caudal Block -- Spinal Anesthesia in Neonates -- Continuous Nerve Catheter Infusions -- Clinical Pearls -- Multiple-Choice Questions -- Answers -- References -- Suggested Further Reading -- 6: General Topics: Regional Anesthesia for Enhanced Recovery After Surgery -- Introduction -- Colorectal Surgery -- Innervation -- Thoracic Epidural Analgesia -- Fascial Plane Blocks -- Gynecologic Surgery -- Innervation -- Thoracic Epidural Analgesia -- Transversus Abdominis Plane (TAP) Block -- Breast Surgery -- Innervation -- PECS I and PECS II Blocks (Chap. 34, Regional Anesthesia) -- Thoracic Paravertebral Block (PVB) (Chap. 29, Regional Anesthesia) -- Thoracic Surgery -- Innervation -- Thoracic Epidural Analgesia (TEA) -- Paravertebral Block (PVB) (Chap. 29, Regional Anesthesia) -- Intercostal Nerve Block (ICB) (Chap. 27, Regional Anesthesia) -- Fascial Plane Blocks -- Cardiac Surgery -- Minimally Invasive Cardiac Surgery -- Sternotomy -- Total Knee Arthroplasty (TKA) -- Innervation -- Neuraxial Anesthesia -- Peripheral Nerve Blocks -- Local Anesthetic Infiltration -- Questions -- Answers -- References -- 7: General Topics: Nerve Injury in Regional Anesthesia -- Introduction -- Anatomy and Mechanisms of Nerve Injury in Regional Anesthesia -- Prevention -- Management -- EMG/NCS -- Clinical Pearls -- MCQs -- Answers -- References -- 8: General Topics: Bier block -- Introduction -- Mechanism of Bier Block -- Agents -- Adjuvants -- Indications -- Contraindications -- Techniques -- Complications -- Clinical Pearls -- MCQs -- Answers to MCQs -- References -- Suggested Additional Reading -- 9: General Topics: Local Anesthetic Systemic Toxicity -- Introduction -- Mechanism of LAST -- Prevention of LAST -- Clinical Presentation -- Treatment -- Mechanism of Intralipid -- MCQs -- Answers. References -- 10: General Topics: Post-dural Puncture Headache -- Introduction -- Patient Risk Factors -- Procedural Risk Factors -- Symptoms -- Pathophysiology -- Diagnosis -- Treatment -- Conservative -- Intervention -- Clinical Pearls -- Questions -- Answers -- References -- Further Reading -- 11: Neuraxial Block: Overview -- Introduction -- Indications -- Contraindications (Table 11.2) -- Sites of Action -- Influencing Factors -- Onset -- Termination of Action -- Test Dose -- Complications (Table 11.5) -- Clinical Pearls -- Questions -- Answers -- References -- Further Reading -- 12: Neuraxial Block: Spine Anatomy -- Epidural (Cervical, Thoracic, Lumbar, Caudal) -- Spine Anatomy -- Blood Supply -- Regional Techniques, Epidural/Caudal -- Technique -- Caudal Epidural -- Preventive Measures to Avoid Complications -- Clinical Pearls -- Questions -- Answers -- References -- Further Reading -- 13: Neuraxial Block: Epidural Adjuvants -- Introduction -- Epinephrine -- Clonidine -- Mechanism of Action -- Benefits -- Adverse Effects -- Administration -- Opioids -- Mechanism of Action -- Adverse Effects -- Morphine -- Hydromorphone -- Fentanyl -- Clinical Pearls -- Questions -- Correct Answers MCQs -- References -- 14: Neuraxial Block: Spinal and Combined Spinal Epidural -- Introduction -- Indications for CSE --

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