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Nota di contenuto	Chapter 1 Introduction -- Chapter 2 Review of Upper Airway Anatomy and Its Clinical Application -- Chapter 3 Radiological Evaluation of the Airway, One Stop-Shop -- Chapter 4 Evaluation of the Normal Airway Using Virtual Endoscopy and Three-Dimensional Reconstruction -- Chapter 5 Virtual Endoscopy and 3D Reconstruction in Patients with Airway Pathology -- Chapter 6 Virtual Endoscopy and 3D Reconstruction in the Nose, Paranasal Sinuses and Skull Base Surgery: New Frontiers -- Chapter 7 Computer Assisted 3D Reconstruction of Oral and Maxillofacial Surgeries -- Chapter 8 Virtual Endoscopy and 3D Reconstruction/Prototyping in Head and Neck Surgeries -- Chapter 9 Perspectives in the Current and Future Use of Augmented Reality Visualization in Thoracic Surgery and Pulmonary Interventions --

Chapter 10 Role of Virtual Endoscopy and 3-D Reconstruction in Airway Assessment of Critically Ill Patients -- Chapter 11 Three-Dimensional Printing and Its Implication on Airway Management -- Chapter 12 Challenging Cases Discussion.

Sommario/riassunto

This book is unique in its approach, covering the impact of virtual endoscopy and 3D reconstruction on surgical modalities and perioperative airway options. Airway management is an essential skill that is practiced daily by almost all anesthetists across the world. Most of the anesthesia-related morbidities and mortalities in the perioperative period are associated with respiratory complications, either of airway or pulmonary problems. Thus, the prediction of airway complications in perioperative period has been an active research field for many decades and is a cornerstone of perioperative anesthesia assessment and management. Virtual endoscopy & 3D reconstruction is a novel, reliable and non-invasive airway assessment tool that is able to reconstruct simple CT images to provide a clear view of the airway down to the bronchial trees, and offers the highest possible sensitivity, comparable with fiberoptic endoscopic pictures. This revolutionary tool avoids the hazards of invasive airway assessment by fiber-optic bronchoscopy, like bleeding from airway masses, sedation induced airway collapse and other complications. This book is a valuable resource for anesthesiologists, intensivists, surgeons, radiologists, otolaryngologists, medical students as well as residents in training.
