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Nota di contenuto	A Brief History of Artificial Ventilation -- The Structure of the Airways and Lungs -- How the Lungs Work: Mechanics and Gas Exchange with the Blood -- Respiratory Failure -- The Management of Respiratory Failure: Airway Management and Manual Methods of Artificial Ventilation -- Basic principles of mechanical ventilation -- Portable mechanical ventilators -- Managing ventilation during transport -- Ventilation in the intensive care unit: the essentials for non – specialists -- Artificial ventilation in difficult and extreme environments -- Mass ventilation during a viral pandemic: lessons from the COVID 19 outbreak. .
Sommario/riassunto	This book provides a concise, clinical guide to the basics of airway and ventilation management for non-specialists working in pre-hospital and emergency medicine. It fulfills the need for a resource that simply and clearly explains the fundamentals of respiratory physiology, the pathophysiology behind respiratory failure and the practical aspects of artificial ventilation. Artificial Ventilation: A Basic Clinical Guide, 2nd edition has been expanded to include guidance on mass ventilation during a viral pandemic with lessons learnt from the COVID-19 outbreak. It has been fully revised to support non-specialist medical and nursing personnel to understand the basics of artificial ventilation and to be able to improvise mass ventilation outside the ICU. Professionals seeking clear guidance on currently available devices and

new approaches to mechanical ventilation will find this book to be an essential resource for all types of emergency situations where artificial ventilation is required. .