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Sommario/riassunto

This book offers a comprehensive overview of the basic physiology of the cardiac and pulmonary systems, tools for cardiopulmonary monitoring, and related issues in the management of specific conditions. The volume is divided into three main parts. The first part examines the functional basis of normal and abnormal physiology, organized into cardiac and pulmonary units and followed by a “combined” interactive component. The next section discusses cardiopulmonary monitoring tools and variables and is also divided into

cardiac (e.g, echocardiography, heart rate, cardiac output), pulmonary (e.g, lung volume, pleural pressure, electrical impedance tomography), and combined tools such as radiology/MRI and tissue perfusion tests. The third section concerns the management and application of specific clinical problems such as pulmonary hypertension, cardiac shunts, cardiogenic shock, and ECMO with an emphasis on the physiological basics. *Cardiopulmonary Monitoring: Basic Physiology, Tools, and Bedside Management for the Critically Ill* is an essential resource for physicians, residents, fellows, medical students, and researchers in cardiology, critical care, emergency medicine, anesthesiology, and radiology.
