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Sommario/riassunto	This volume synthesizes pathways in respiratory mechanics and the dynamics of air-blood and blood-cellular gas exchange for students and teachers in respiratory physiology. The authors strive to make physiology fun to learn. This aspect of knowledge acquisition is reflected in the way topics are approached, for example by using playing cards in what is coined 'Respi-CARDology'. The first section of this book reviews the framework and foundations of basic respiratory physiology. Since this book was not written to be a comprehensive physiology text, the authors have focused on leading students to appreciate and understand integrative principles and homeostatic mechanisms in lung function. The second section of this book mainly deals with the clinical application of fundamental knowledge of respiratory physiology.