<<肺生理学Pulmonary Physi>>

图书基本信息

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内容概要

Gives students a solid grasp of those aspects of pulmonary physiology that are essential for an understanding of clinical medicine. The Sixth Edition presents a new section of case presentations, improved illustrations, problem-based examples, and new study questions & answers after each chapter to help students prepare for the USMLE Step 1.

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书籍目录

Chapter 1 Function & Structure of the Respiratory System Objectives Functions of the Respiratory System Structure of the Respiratory System Key Concepts Suggested ReadingsChapter 2 Mechanics of Breathing Objectives Generation or a Pressure Gradient Between Atmosphere & Alveoli Pressure-Volume Relationships in the Respiratory System Interaction of Lung & Chest Wall: The Static Pressure-Volume Cm Airways Resistance The Work of Breathing Key Concepts Clinical Problems Suggested ReadingsChapter 3 Alveolar Ventilation Objectives The Lung Volumes Measurement of the Lung Volumes Anatomic Dead Space & Alveolar Ventilation Measurement of Alveolar Ventilation Alveolar Ventilation & Alveolar Oxygen & Carbon Dioxide Levels Regional Distribution of Alveolar Ventilation The Closing Volume The Effects of Aging Key Concepts Clinical Problems Suggested ReadingsChapter 4 Blood Flow to the Lung Objectives The Bronchial Circulation The Functional Anatomy of the Pulmonary Circulation Pulmonary Vascular Resistance The Regional Distribution of Pulmonary Blood Flow: The Zones of the Lung Hypoxic Pulmonary Vasoconstriction Pulmonary Edema Key Concepts Clinical Problems Suggested ReadingsChapter 5 Ventilation-Perfusion Relationship Objectives The Concept of Matching Ventilation & Perfusion Consequences of High & Low V/Q Testing for Nonuniform Distribution of Inspired Gas & Pulmonary Flow Regional V/Q Differences & Their Consequences in the Lung Key Concepts Clinical Problems Suggested ReadingsChapter 6 Diffusion of Gases Objectives Fink 's Law for Diffusion Limitations of Gas Transfer Diffusion of Oxygen Diffusion of Carbon Dioxide Measurement of Diffusing Capacity Key Concepts Clinical Problems Suggested ReadingsChapter 7 The Transport of Oxygen & Carbon Dioxide in the Blood Objectives Transport of Oxygen by the Blood Hemoglobin & the Physiologic Implications of the Oxyhemoglobin Dissociation Curve Influences on the Oxyhemoglobin Dissociation Curve Transport of Carbon Dioxide by the Blood The Carbon Dioxide Dissociation Curve The Bohr & Haldane Effects Explained Key Concepts Clinical Problems Suggested ReadingsChapter 8 The Regulation of Acid-Base Status Objectives The Chemistry of Acids, Bases, & BuffersChapter 9 The Control of BreathingChapter 10 Nonrespiratory Functions of the LungChapter 11 The Respiratory Srstem Umder Stress Clinical Problem AnswersAppendixIndex1

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