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## Nunn's Applied Respiratory Physiology, 6e

By Andrew Lumb

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Summary: Part 1: Basic principles 1. The atmosphere 2. Functional anatomy of the respiratory tract 3. Elastic forces and lung volumes 4. Respiratory system resistance 5. Control of breathing 6. Pulmonary ventilation 7. The pulmonary circulation 8. Distribution of pulmonary ventilation and perfusion 9. Diffusion of respiratory gases 10. Carbon dioxide 11. Oxygen 12. Non-respiratory functions of the lung 13. The history of respiratory physiology Part 2: Applied physiology 14. Pregnancy, neonates and children 15. Exercise 16. Sleep 17. High altitude and flying 18. High pressure and diving 19. Respiration in closed environments and space 20. Drowning 21. Smoking and air pollution 22. Anaesthesia 23. Changes in the carbon dioxide tension 24. Hypoxia 25. Anaemia 26. Hyperoxia and oxygen toxicity Part 3: Physiology of pulmonary disease 27. Ventilatory failure 28. Airways disease 29. Pulmonary vascular disease 30. Parenchymal lung disease 31. Acute lung injury 32. Respiratory support and artificial ventilation 33. Lung transplantation Appendices: A. Physical quantities and units of measurement B. The gas laws C. Conversion factors for gas volumes D. Symbols and abbreviations E. Nomograms and correction charts F. Mathematical functions relevant to...



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