



## Physics for Scientists and Engineers with Modern Physics, Chapters 1-46 (with CengageNOW 2-Semester, Personal Tutor Printed Access Card)

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Cengage Learning, 2007. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service!

Summary: Part I: MECHANICS. 1. Physics and Measurement. 2. Motion in One Dimension. 3. Vectors. 4. Motion in Two Dimensions. 5. The Laws of Motion. 6. Circular Motion and Other Applications of Newton's Laws. 7. Energy of a System. 8. Conservation of Energy. 9. Linear Momentum and Collisions. 10. Rotation of a Rigid Object About a Fixed Axis. 11. Angular Momentum. 12. Static Equilibrium and Elasticity. 13. Universal Gravitation. 14. Fluid Mechanics. Part II: OSCILLATIONS AND MECHANICAL WAVES. 15. Oscillatory Motion. 16. Wave Motion. 17. Sound Waves. 18. Superposition and Standing Waves. Part III: THERMODYNAMICS. 19. Temperature. 20. Heat and the First Law of Thermodynamics. 21. The Kinetic Theory of Gases. 22. Heat Engines, Entropy, and the Second Law of Thermodynamics. Part IV: ELECTRICITY AND MAGNETISM. 23. Electric Fields. 24. Gauss's Law. 25. Electric Potential. 26. Capacitance and Dielectrics. 27. Current and Resistance. 28. Direct Current Circuits. 29. Magnetic Fields. 30. Sources of the Magnetic Field. 31. Faraday's Law. 32. Inductance. 33. Alternating Current Circuits. 34. Electromagnetic Waves. Part V: LIGHT AND OPTICS. 35. The Nature of Light and the Laws of Geometric Optics....

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