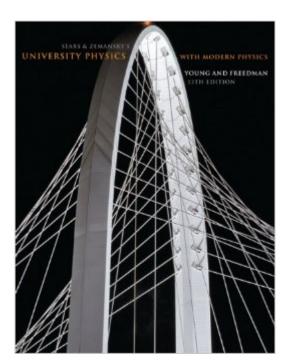
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Sears And Zemansky's University Physics With Modern Physics, 13th Edition





Synopsis

University Physics with Modern Physics, Thirteenth Edition continues to set the benchmark for clarity and rigor combined with effective teaching and research-based innovation. Â Â University Physics is known for its uniquely broad, deep, and thoughtful set of worked examples a "key tools for developing both physical understanding and problem-solving skills. The Thirteenth Edition revises all the Examples and Problem-Solving Strategies to be more concise and direct while maintaining the Twelfth Edition's consistent, structured approach and strong focus on modeling as well as math. To help students tackle challenging as well as routine problems, the Thirteenth Edition adds Bridging Problems to each chapter, which pose a difficult, multiconcept problem and provide a skeleton solution guide in the form of guestions and hints. Â The text's rich problem setsâ "developed and refined over six decadesâ "are upgraded to include larger numbers of problems that are biomedically oriented or require calculus. The problem-set revision is driven by detailed student-performance data gathered nationally through MasteringPhysics®, making it possible to fine-tune the reliability, effectiveness, and difficulty of individual problems. Â Complementing the clear and accessible text, the figures use a simple graphic style that focuses on the physics. They also incorporate explanatory annotationsâ "a technique demonstrated to enhance learning. Â This package contains: University Physics with Modern Physics, Thirteenth Edition

Book Information

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Customer Reviews

This book has clear explanations, nice pictures and good exercise problems. Interesting applications of physics like swiping of an ATM card and working of touchscreen devices are also

mentioned. Exercise problems are categorized by section. Knowledge of differential and integral calculus is recommended, although you can learn a great deal even without it. Overall, this is simply the best introductory physics textbook out there!The following is the table of contents:MECHANICS1. Units, Physical Quantities, and Vectors2. Motion Along a Straight Line3. Motion in Two or Three Dimensions4. Newton's Laws of Motion5. Applying Newton's Laws6. Work and Kinetic Energy7. Potential Energy and Energy Conservation8. Momentum, Impulse, and Collisions9. Rotation of Rigid Bodies10. Dynamics of Rotational Motion11. Equilibrium and Elasticity12. Fluid Mechanics13. Gravitation14. Periodic MotionWAVES/ACOUSTICS15. Mechanical Waves16. Sound and HearingTHERMODYNAMICS17. Temperature and Heat18. Thermal Properties of Matter19. The First Law of Thermodynamics20. The Second Law of ThermodynamicsELECTROMAGNETISM21. Electric Charge and Electric Field22. Gauss's Law23. Electric Potential24. Capacitance and Dielectrics25. Current, Resistance, and Electromotive Force26. Direct-Current Circuits27. Magnetic Field and Magnetic Forces28. Sources of Magnetic Field29. Electromagnetic Induction30. Inductance31. Alternating Current32. Electromagnetic WavesOPTICS33. The Nature and Propagation of Light34. Geometric Optics and Optical Instruments35.

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