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© 1996-2014, Amazon.com, Inc. or its affiliates is a name from print. Randall D Knight, California Polytechnic State University-San Luis Obispo Brian Jones, Colorado State University Stuart Field, University of Colorado Building on science-tested teaching techniques introduced in Knight Physics for scientists and engineers, the most widely adopted new text physics in more than 30 years, College of Physics: A Strategic Approach to set a new standard for algebra-based physics- to gain wide acclaim from professors. For the second edition, Randy Knight, Brian Jones, and Stuart Field continue to apply the best educational research results and refine and adapt them for this course and the special needs of their students. New pedagogical functions (Chapter Previews, Integrated Examples, and Part Summary Problems) and fine-tuning and streamlined content take the signs of the first edition-exceptionally effective conceptual explanation and problem-solving instructions to a new level. More than any other book, College Physics leads students to experienced and long-term problem-solving skills, a deeper and more connected understanding of concepts, and a broader picture of the relevance of physics for their chosen career and the world around them. The College of Physics Technology Update, the second edition, is accompanied by a significantly more reliable masteringPhysics®-most advanced, educationally efficient, and widely used online textbook physics and homework system in the world. In addition, the textbook has more than 100 codes that allow students to use their smartphone or tablet to instantly view interactive videos about relevant demonstrations or problem-solving strategies. STRATEGIC PROBLEM-SOLVING INSTRUCTION College Physics creates the ability and confidence of students to solve problems, starting with basic skills and basic concepts, using clear and systematic problem-solving strategies and carefully moving towards more advanced and broad challenges. Students learn to visualize problems and then solve them rather than just look for a similar example that they can minimally change. A consistent three-step approach provides a problem-solving framework throughout the book: Students learn to analyze a problem from multiple quality perspectives and plan a solution (in a preparation step) before reviewing it mathematically (SOLVE) and then analyzing their outcome (ASSESS). Detailed problem-solving strategies for a variety of topics are developed throughout the book, each based on PREPARE/SOLVE/ASSESS. Tactical boxes provide clear procedures for developing specific skills (drawing free body diagrams, using ray tracing, etc.). Worked examples to follow a three-step strategy and include in careful explanation of the explanation and often unswero contradicted, reasoning. Conceptual examples build quality skills of reasoning of students. They follow the ASC and then the ASSESS strategy (no math involved and so STEP SOLVE is required). The integrated examples at the end of each chapter demonstrate problem solving in the context of Capstone, a multi-concept real scenario. They are designed to help students bridge the gap between chapter-based work and shared homework that covers the entire chapter or many chapters. Part of the Summary of Integrated Problems close each of the seven parts of the book. They take student problem solving one step further, covering topics that cover multiple chapters something MCAT usually does. Explicit learning, especially by numbers, is provided to help the student translate back and forth between different views such as verbal, pictorial, graphic and mathematical descriptions. The Student Workbook provides simple confidence and skill-building exercises. THOUGHTFULLY CRAFTED RELEVANCE Interesting and diverse applications - from biology, technology, sports and medicine, carefully woven into the text , give students motivational examples of how physics will help them in their chosen career - and in understanding the world around them. Many examples and problems of the end of the chapter are set in the context of an interesting real-world scenario. Try it Yourself activities throughout the text to provide students with simple real-life experiments designed to reinforce ideas through direct experience. Free apps with photos and short captions are provided on the margins to connect physical principles with the real world. TARGETED GUIDANCE Authors directly address student biases, misconceptions, and common stumbling blocks - guiding students to a solid fundamental knowledge of related concepts and confidence in applying their understanding. Throughout, the text carefully guides students away from their known biases, and around common sticking points (often unspecified or insufficiently explained in conventional texts). Based on recent educational studies, the text takes exceptional care to guide students through what they need to know. It is complete, concise and well worded. NOTE items target many of the details (including math skills) that often cause students the most trouble. Stop thinking questions at the end of the section to encourage active reflection over passive reading. Using proven cognitive science techniques, they are designed to help students discover and overcome their misconceptions. Answers are provided at the end of the chapter. Mathematical relationship boxes discuss in detail the key mathematical relationships that are most common in this course, giving textual, and algebraic ideas, and tips on how to Icons in the text refer to the appropriate mathematical casket, when relationships are repeated between key physical variables, helping students to see the connections in the mathematical forms they need to use and to talk about physical relationships. Increased attention is paid to the relationship in the text, examples and sections on the end of the chapter. ACCLAIMED READABILITY College Physics is a highly readable, accessible text, a build from familiar and specific examples, providing a carefully structured learning path and using key ideas from educational studies on how visual pedagogy can be used to help make physics more accessible. Studies show that today's students need a fascinating presentation that starts with specific examples and works carefully on abstract concepts, making connections and guiding insights. New concepts are introduced based on observations about the real world and theories based on observationals. This inductive approach illustrates how science works, and has been shown to improve student learning. Chapter Previews at the beginning of each chapter are based on the educational psychology concept of promoting the organizer. This illustrated a preview of the links between upcoming ideas and existing knowledge, sets them in context, and explains their usefulness, providing a simple and accessible base on which students can build their understanding. In hindsight, the links allow them to see key links to previous ideas. Unique visual summary chapters help students organize their knowledge in a coherent hierarchy rather than a mixed set of disparate facts, numbers, and equations. Throughout, key ideas from educational research and proven techniques from cognitive science drive a unique approach to numbers (e.g. annotation directly on numbers, simplified use of color, little extraneous detail) to make physics more accessible. Fine tuning of chapter content in all simplifies and focuses text, in response to feedback from adopters. The textbook has more than 100 codes that allow students to use their smartphone or tablet to instantly view interactive videos about relevant demonstrations or problem-solving strategies. Video Tutor Solutions, created by co-author Brian Jones, gives students an engaging and helpful step-by-step guide on how to go about problem solving for every major topic. Starting with a quality review in the context of a lab or a real demo, Brian then carefully explains the steps needed to solve a typical problem, using an animation board and questions to actively engage the student. Class Video to present the most interactive parts co-author Brian Jones dynamic lectures, encouraging students to participate, answering their questions throughout. Video Tutor Demonstrations feature pause-and-predict demonstrations key key concept and incorporate the assessment as the student progresses actively engage them in understanding the key conceptual ideas underlying the principles of physics. ActivPhysics and PhET icons throughout the tutorial (and live in eText) link to more than 220 ActivPhysics applets and 76 PhET simulations. NEW to MasteringPhysics®: Improved end chapter problems now offer additional support, such as problem-solving strategy tips, appropriate mathematical review and practice, links to eText and links to the appropriate Video Tutor solution. These new extended challenges bridge the gap between guided tutorials and traditional homework problems. PhET Tutorials encourage students to interact with well-known PhET simulations and conceptual insights of test students. PhET modeling is an interactive tool that helps students understand the connection between the real phenomena of life and underlying physics. 76 PhET modeling is also represented in the master's degree and eText Pearson. Variable numbers and units challenge students to enter part of the response units in addition to numerical value. By default, students must enter numbers and units for specific questions, but teachers can disable the requirement to enter units within the job (during creation) or throughout the course. The math restoration found in selected textbooks provides temporary help in mathematics and allows students to brush up on the most important mathematical concepts needed to successfully complete assignments. This new feature connects students directly to math review and practice, helping students make the link between math and physics. Choose from a set of pre-built courses and assignments to use as a starting point for your own course. Pre-built courses have actual courses that authors and professors have successfully used on their campuses. Pre-constructed assignments follow recommendations on length and complexity and include a mixture of tutorials and end chapter questions using different types of problems. MasteringPhysics monitors student performance in relation to learning outcomes. Mastering offers data-supported measures to quantify student performance and to quickly and easily share results: add your own or use the results provided by the publisher to track student performance and report back to your administration. View the performance of the class with these learning results. Export results to a spreadsheet that you can additionally set up and/or share with your chairman, dean, administrator, or accreditation board. New Pearson eText app for iPad and is an excellent companion to the eText-based Pearson browser book, ready for desktop and laptop computers. J. POWER AND MOVEMENT 1. Motion performance 2. Movement in one dimension 3. Vectors and movement of two to 4. Newton's Movement Forces and Laws 5. Application of Newton's laws 6. Circular motion, orbits and gravity 7. Rotational motion 8. Balance and Elasticity II. Momentum 10. Energy and work 11. Using Energy III. The thermal properties of matter 13. Fluids IV. WISLY AND WORLD 14. Fluctuations 15. Travel Waves and Sound 16. Superposition and standing waves V. OPTICS 17. Wave optics 18. Beam optics 19. Optical Instruments VI. ELECTRICITY AND MAGNETISM 20. Electric fields and forces 21. Electric potential 22. Current and Resistance 23. Trails 24. Magnetic fields and forces 25. Electromagnetic induction and electromagnetic waves 26. AC Electricity VII. MODERN PHYSICS 27. Relativity 28. quantum physics 29. Atoms and molecules 30. 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