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Technologies play key roles in transforming classrooms into flexible and open learning spaces that tap into vast educational databases, personalize learning, unlock access to virtual and online communities, and eliminate the boundaries between formal and non-formal education. Online –virtual and remote– laboratories reflect the current IT trend in STEM school sector. The book addresses this topic by introducing several

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remote experiments practices for engaging and inspiring K12 students.

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This text blends traditional introductory physics topics with an emphasis on human applications and an expanded coverage of modern physics topics, such as the existence of atoms and the conversion of mass into energy. Topical coverage is combined with the author's lively, conversational writing style, innovative features, the direct and clear manner of presentation, and the emphasis on problem solving and practical applications.

Next Generation Science Standards identifies the science all K-12 students should know. These new standards are based on the National Research Council's A Framework for K-12 Science Education. The National Research Council, the National Science Teachers Association, the American Association for the Advancement of Science, and Achieve have partnered to create standards through a

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Interactive Lecture Demonstrations (ILDs) are designed to enhance conceptual learning in physics lectures through active engagement of students in the learning process. Students observe real physics demonstrations, make predictions about the outcomes on a prediction sheet, and collaborate with fellow students by discussing their predictions in small groups. Students then examine the results of the live demonstration (often displayed as real-time graphs using computer data acquisition tools), compare these results with their predictions, and attempt to explain the observed phenomena. ILDs are available for all of the major topics in the introductory physics course and can be used within the traditional structure of an introductory physics course. All of the

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