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deep learning in introductory physics explores how students learn physics in a model centered classroom it addresses the coherence vs fragmentation debate and suggests that deep science learning is regressive and revolutionary

key features organizes a difficult subject into short and clearly written sections can be used alongside any introductory physics textbook presents clear examples for every problem type discussed in the textbook

this book grew out of an ongoing effort to modernize Colgate University's three-term introductory calculus level physics course. The book is for the first term of this course and is intended to help first-year college students make a good transition from high school physics to university physics. The book concentrates on the physics that explains why we believe that atoms exist and have the properties we ascribe to them. This story line, which motivates much of our professional research, has helped us limit the material presented to a more humane and more realistic amount than is presented in many beginning university physics courses. The theme of atoms also supports the presentation of more non-Newtonian topics and ideas than is customary in the first term of calculus level physics. We think it is important and desirable to introduce students sooner than usual to some of the major ideas that shape contemporary physicists' views of the nature and behavior of matter here in the second decade of the twenty-first century. Such a goal seems particularly appropriate: the quantum nature of atoms and light and the mysteries associated with quantum behavior clearly interest our students. By adding and phasing more modern content, we seek not only to present some of the physics that engages contemporary physicists but also to attract students to take more physics. Only a few of our beginning physics students come to us sharply focused on physics or astronomy; nearly all of them have never taken physics in high school and found it interesting.

Introductory physics goes beyond a typical introductory text by assuming a basic understanding among readers and engaging them in dialogue about their own prior conceptions and strategies.

This classroom-tested textbook is an innovative, comprehensive, and forward-looking introductory undergraduate physics course. While it clearly explains physical principles and equips the student with a full range of quantitative tools and methods, the material is firmly grounded in biological relevance and is brought to life with plenty of biological examples throughout. It is designed to be a self-contained text for a two-semester sequence of introductory physics for biology and premedical students, covering kinematics and Newton's laws, energy, probability, diffusion, rates of change, statistical mechanics, fluids, vibrations, waves, electromagnetism, and optics. Each chapter begins with learning goals and concludes with a summary of core competencies, allowing for seamless incorporation into the classroom. In addition, each chapter is replete with a wide selection of creative and often surprising examples, activities, computational tasks, and exercises, many of which are inspired by current research topics, making cutting-edge biological physics accessible to the student.

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