

Charles H. Holbrow · James N. Lloyd
Joseph C. Amato · Enrique Galvez
Beth Parks



Modern Introductory Physics

Second Edition

 Springer

Modern Introductory Physics

David J. Raymond



Modern Introductory Physics:

Modern Introductory Physics Charles H. Holbrow, James N. Lloyd, Joseph C. Amato, Enrique Galvez, M. Elizabeth Parks, 2013-06-29 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 in the existence of atoms and their properties. 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. On the verge of the twenty first century such a goal seems particularly appropriate.

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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 andphasizing 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

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