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*Key Message: This book aims to explain physics in a readable and interesting manner that is accessible and clear, and to teach readers by anticipating their needs and difficulties without oversimplifying. Physics is a description of reality, and thus each topic begins with concrete observations and experiences that readers can directly relate to. We then move on to the generalizations and more formal treatment of the topic. Not only does this make the material more interesting and*

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*easier to understand, but it is closer to the way physics is actually practiced. Key Topics:*

*INTRODUCTION,  
MEASUREMENT, ESTIMATING,  
DESCRIBING MOTION:  
KINEMATICS IN ONE  
DIMENSION, KINEMATICS IN  
TWO OR THREE DIMENSIONS;  
VECTORS, DYNAMICS:  
NEWTON'S LAWS OF MOTION ,  
USING NEWTON'S LAWS:  
FRICTION, CIRCULAR MOTION,  
DRAG FORCES, GRAVITATION  
AND NEWTON'S6 SYNTHESIS ,  
WORK AND ENERGY ,  
CONSERVATION OF ENERGY ,  
LINEAR MOMENTUM ,  
ROTATIONAL MOTION ,  
ANGULAR MOMENTUM;*

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OSCILLATIONS , WAVE MOTION,  
SOUND , TEMPERATURE,  
THERMAL EXPANSION, AND THE  
IDEAL GAS LAW KINETIC  
THEORY OF GASES, HEAT AND  
THE FIRST LAW OF  
THERMODYNAMICS , SECOND  
LAW OF THERMODYNAMICS ,  
ELECTRIC CHARGE AND  
ELECTRIC FIELD , GAUSS'S LAW  
, ELECTRIC POTENTIAL ,  
CAPACITANCE, DIELECTRICS,  
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RESISTANCE, DC CIRCUITS,  
MAGNETISM, SOURCES OF  
MAGNETIC FIELD,*

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ELECTROMAGNETIC  
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CIRCUITS, MAXWELL'S  
EQUATIONS AND  
ELECTROMAGNETIC WAVES,  
LIGHT: REFLECTION AND  
REFRACTION, LENSES AND  
OPTICAL INSTRUMENTS, THE  
WAVE NATURE OF LIGHT;  
INTERFERENCE, DIFFRACTION  
AND POLARIZATION, SPECIAL  
THEORY OF RELATIVITY, EARLY  
QUANTUM THEORY AND  
MODELS OF THE ATOM,  
QUANTUM MECHANICS,  
QUANTUM MECHANICS OF  
ATOMS, MOLECULES AND*

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*Description: This book is written for readers interested in learning the basics of physics.*

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FRACTURE, FLUIDS,  
OSCILLATIONS, WAVE MOTION,  
SOUND, TEMPERATURE,  
THERMAL EXPANSION, AND THE  
IDEAL GAS LAW, KINETIC  
THEORY OF GASES, HEAT AND  
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*Market Description: This book is written for readers interested in learning the basics of physics. Presents basic concepts in physics, covering topics such as kinematics,*

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*Newton's laws of motion, gravitation, fluids, sound, heat, thermodynamics, magnetism, nuclear physics, and more, examples, practice questions and problems.*

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*basic concepts of physics in a manner that is accessible and clear. The goal is for students to view the world through eyes that know physics.*

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[Principles with Applications Volume I \(Chs. 1-15\)](#)

[Physics for Scientists and Engineers](#)

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[SCIENTISTS AND ENGINEERS  
Student Study Guide and Selected  
Solutions Manual for Physics for  
Scientists and Engineers with  
Modern Physics Vols. 2 And 3  
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Physics: Pearson New International  
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physics in a readable and interesting manner that is accessible and clear, and to teach students by anticipating their needs and difficulties without oversimplifying. Physics is a description of reality, and thus each topic begins with concrete observations and experiences that students can directly relate to. We then move on to the generalizations and more formal treatment of the topic. Not only does this make the material more interesting and easier to understand, but it is closer to the way physics is actually practiced.

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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

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[Vol. 3 \(Chs 36-44\)](#)  
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NEWTON'S LAWS OF MOTION  
, USING NEWTON'S LAWS:  
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ELASTICITY AND FRACTURE  
, FLUIDS , OSCILLATIONS  
, WAVE MOTION, SOUND ,  
TEMPERATURE, THERMAL  
EXPANSION, AND THE IDEAL  
GAS LAW KINETIC THEORY  
OF GASES , HEAT AND THE  
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SOURCES OF MAGNETIC  
FIELD, ELECTROMAGNETIC  
INDUCTION AND FARADAY'S  
LAW, INDUCTANCE,  
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POLARIZATION, SPECIAL  
THEORY OF RELATIVITY  
EARLY QUANTUM THEORY AND  
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