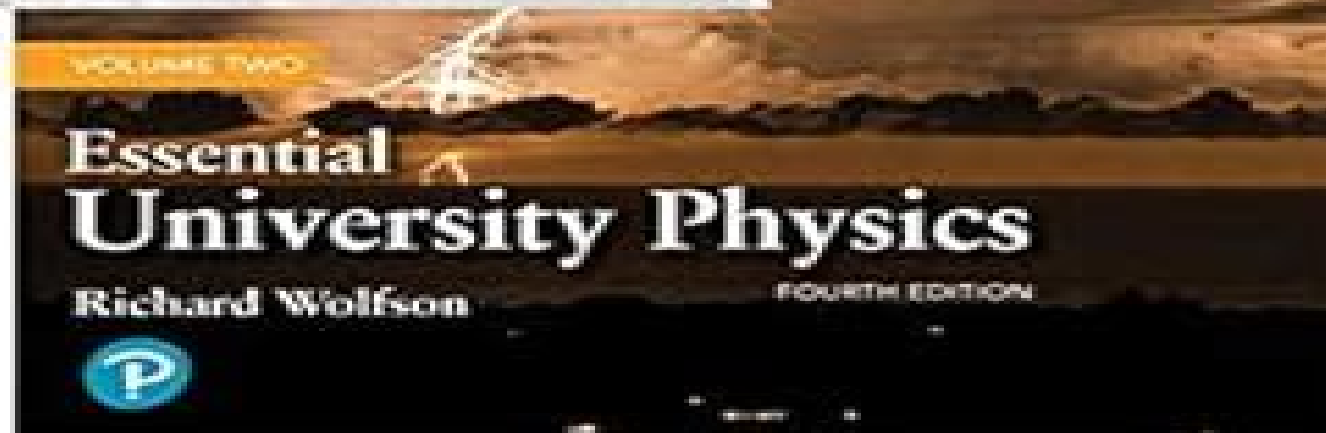


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concepts upon which the quantitative nature of physics as a science depends the types of quantities with which physics deals are defined as well as their nature and the concepts of units and dimensions The book describes the concepts of scalars and vectors the rules for performing mathematical operations on vector quantities the concepts of force torque center of gravity and types of equilibrium The text also describes the concepts and quantities required to describe motion the linear kinematical relationships to describe motion as well as the interrelationship between forces which effect motion and the motion itself The concepts of mechanical work kinetic energy and power conservative and nonconservative forces and the conservation of linear momentum are also considered The book further tackles the concept of the center of mass the rotational analogs of translational dynamics and the mechanics of rotating systems The text then demonstrates the motion of a rigid body oscillatory motion the mechanical properties of matter and hydrodynamics Thermodynamics electricity electromagnetism and geometric and physical optics are also encompassed Quantum and nuclear physics are also looked into Students taking physics courses will find the book useful

Instructor's Manual with Abbreviated Solutions to Accompany University Physics Alvin Hudson,1982

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
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