



Mechanics, Waves and Thermodynamics: An Example-based Approach (Hardback)

By Sudhir Ranjan Jain

CAMBRIDGE UNIVERSITY PRESS, United Kingdom, 2016. Hardback. Condition: New. Language: English . Brand New Book. The principles of classical physics, though superseded in specific fields by such theories as quantum mechanics and general relativity, are still of great importance in a broad range of applications. The book presents fundamental concepts of classical physics in a coherent and logical manner. It discusses important topics including the mechanics of a single particle, kinetic theory, oscillations and waves. Topics including the kinetic theory of gases, thermodynamics and statistical mechanics are discussed, which are normally not present in the books on classical physics. The fundamental concepts of energy, momentum, mass and entropy are explained with examples. Discussion on concepts of thermodynamics is presented along with the simplified explanation on Caratheodory's axioms. It covers chapters on wave motion and statistical physics, useful for the graduate students. Each concept is supported with real-life applications on several concepts including impulse and collision, Bernoulli's equation, and friction.



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