

Classical Mechanics of Particles and Rigid Bodies

K. C. Gupta



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Comprehensive yet simply-written, this text provides a classical treatment of the mechanics of particles and rigid bodies, and contains nearly 200 examples and solved problems. The solved problems are supplemented by many more unsolved ones and revision questions at the end of each chapter. Exposition emphasizes the analogy between certain aspects of classical mechanics and quantum mechanics. The last chapter is devoted to non-linear oscillatory systems. Topics covered include the Lagrangian formalism, the Hamiltonian formalism, decay and scattering processes, kinematics and dynamics of rigid body motion, the special theory of relativity, relativistic classical mechanics, continuous systems and classical fields.

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