

Elementary Plane Rigid Dynamics focuses on the basic ideas of particle dynamics, including center of gravity, inertia, friction, and oscillations. The publication first offers information on the motion of a rigid body around a fixed axis. Discussions focus on moment of inertia for a sphere for an axis through its center of gravity; moment of inertia of a cylinder for an axis through its center of gravity and normal to its axis of figure; and moment of inertia of a rectangular parallelepiped for an axis normal to one of its faces and through its center of gravity. The text then elaborates on the general plane motion of a rigid body and some special problems involving friction. Topics include belt and rope friction, power transmitted by a flat disk coupling, friction in a flat step bearing, meaning of the general torque equation for plane motion, superelevation of the outer rail on a railway curve, kinetic energy, and equilibrium. The book takes a look at undamped simple harmonic motion and damped and forced oscillations, including vibrations with damping, compound pendulum, and amplitude of forced oscillations in the steady state. The publication is a valuable source of data for students interested in plane rigid dynamics.

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