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How Things Work: The Physics of Everyday Life

By Bloomfield, Louis A.

Wiley, 2005. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Chapter 1. The Laws of Motion, Part I. Experiment: Removing a Tablecloth from a Table 1.1.1 Skating. (inertia, force, velocity, acceleration, mass, Newton's first and second laws, inertial frames of reference, units).1.2 Falling Balls. (weight, projectile motion, vector components).1.3 Ramps. (net force, Newton's third law, energy, work, energy conservation, potential energy, ramps,mechanical advantage).Chapter 2. The Laws of Motion, Part II. Experiment: A Spinning Pie Dish.2.1 Seesaws. (rotational inertia, torque, angular velocity, angular acceleration, rotational mass, Newton's first and second laws of rotation, center of mass, levers).2.2 Wheels. (friction, thermal energy, wheels, bearings, kinetic energy).2.3 Bumper Cars. (momentum, impulse, momentum conservation, angular momentum, angular impulse, angular momentum conservation, Newton's third law of rotation, potential energy and acceleration).Chapter 3. Mechanical Objects, Part I. Experiment: Swinging Water Overhead.3.1 Spring Scales. (Equilibrium, stable equilibrium, Hooke's law, oscillation, calibration, center of gravity).3.2 Bouncing Balls. (collisions, energy transfers, vibration, elastic and inelastic collisions).3.3 Carousels and Roller Coasters. (feeling of acceleration, uniform circular motion, centripetal acceleration).Chapter 4. Mechanical Objects, Part II. Experiment: High Flying Balls.4.1 Bicycles. (unstable equilibrium, static and dynamic stability, precession).4.2 Rockets and Space Travel. (reaction forces, Newton's law...



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