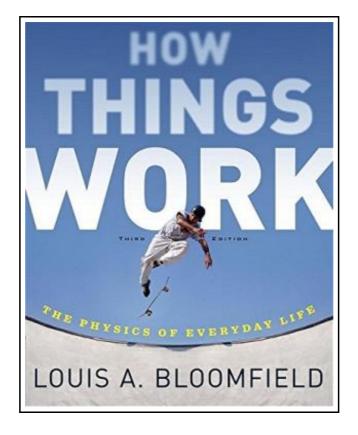
## How Things Work: The Physics of Everyday Life



Filesize: 2.93 MB

## Reviews

A really awesome book with lucid and perfect information. Of course, it is actually play, nonetheless an amazing and interesting literature. You are going to like just how the article writer create this ebook.

(Nakia Toy Jr.)

## HOW THINGS WORK: THE PHYSICS OF EVERYDAY LIFE



To read How Things Work: The Physics of Everyday Life eBook, remember to refer to the link under and download the document or get access to additional information that are in conjuction with HOW THINGS WORK: THE PHYSICS OF EVERYDAY LIFE ebook.

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 of gravitation, elliptical orbits, Kepler's laws, special and general relativity, equivalence principle). Chapter 5. Fluids. Experiment: A Cartesian Diver. 5.1 Balloons. (pressure, density, temperature, Archimedes' principle, buoyant force, ideal gas law).5.2 Water Distribution. (hydrostatics, Pascal's principle, hydraulics, hydrodynamics, steady state flow, Bernoulli's equation). Chapter 6. Fluids and Motion. Experiment: A Vortex Cannon.6.1 Garden Watering. (viscous forces, laminar and turbulent flows, speed and pressure in a fluid, Reynolds number, chaos, momentum in a fluid).6.2 Balls and Air. (aerodynamic lift and drag, viscous drag, pressure drag, boundary layers, Magnus and wake deflection forces).6.3 Airplanes. (streamlining, lifting wing, angle of attack, induced drag, stalled wing, thrust). Chapter...

- **→** Read How Things Work: The Physics of Everyday Life Online
  - Download PDF How Things Work: The Physics of Everyday Life

## Relevant eBooks



[PDF] Grandpa Spanielson's Chicken Pox Stories: Story #1: The Octopus (I Can Read Book 2)

Click the web link below to download and read "Grandpa Spanielson's Chicken Pox Stories: Story #1: The Octopus (I Can Read Book 2)" file.

Download PDF »



[PDF] Eighth grade - reading The Three Musketeers - 15 minutes to read the original ladder-planned

Click the web link below to download and read "Eighth grade - reading The Three Musketeers - 15 minutes to read the original ladder-planned" file.

Download PDF »



[PDF] Read Write Inc. Phonics: Blue Set 6 Storybook 6 the Jar of Oil (Paperback)

Click the web link below to download and read "Read Write Inc. Phonics: Blue Set 6 Storybook 6 the Jar of Oil (Paperback)" file.

Download PDF »



[PDF] The Tale of Jemima Puddle-Duck - Read it Yourself with Ladybird: Level 2 Click the web link below to download and read "The Tale of Jemima Puddle-Duck - Read it Yourself with Ladybird: Level 2" file.

Download PDF »



[PDF] California Version of Who Am I in the Lives of Children? an Introduction to Early Childhood Education, Enhanced Pearson Etext with Loose-Leaf Version -- Access Card Package

Click the web link below to download and read "California Version of Who Am I in the Lives of Children? an Introduction to Early Childhood Education, Enhanced Pearson Etext with Loose-Leaf Version -- Access Card Package" file.

Download PDF »



[PDF] Who Am I in the Lives of Children? an Introduction to Early Childhood Education, Enhanced Pearson Etext with Loose-Leaf Version -- Access Card Package

Click the web link below to download and read "Who Am I in the Lives of Children? an Introduction to Early Childhood Education, Enhanced Pearson Etext with Loose-Leaf Version -

- Access Card Package" file.

Download PDF »