

How Things Work The Physics Of Everyday Life

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TOP REVIEWS FROM HOW THINGS WORK: AN INTRODUCTION TO PHYSICS. by MS May 6, 2020. Mind blowing.. excellent study by Prof. Bloomfield. Hatsoff to you sir. Very excellent representation of physics concepts by taking interesting examples. Good Personalited Professor i have ever seen .

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How Things Work uses familiar objects to introduce basic physics concepts, demonstrating the excitement and relevance to professionals in a variety of technical fields. Because its structure is defined by real-life examples, this book explores concepts as they're needed and then revisits them later on when they reappear in other objects.

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How Things Work: The Physics of Everyday Life, 6th Edition. It is common for students to feel intimidated, or even scared, when starting a Physics course. How Things Work takes a new approach to change this mentality by relating physics to objects we interact with daily. This course provides liberal arts physics instructors and students with a customizable, mobile and media rich online resource to engage students taking the course leveraging any teaching style.

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This book is an unconventional introduction to physics and science that starts with whole objects and looks inside them to see what makes them work. It's written for students who seek a connection between science and the world in which they live. How Things Work brings science to the reader rather than the reverse.

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Work, in physics, measure of energy transfer that occurs when an object is moved over a distance by an external force at least part of which is applied in the direction of the displacement. If the force is constant, work may be computed by multiplying the length of the path by the component of the force acting along the path. To express this concept mathematically, the work W is equal to the ...

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How Things Work provides an accessible introduction to physics for the non-science student. Like the previous editions it employs everyday objects, with which students are familiar, in case studies to explain the most essential physics concepts of day-to-day life. Lou Bloomfield takes seemingly highly complex devices and strips away the complexity to show how at their heart are simple physics ideas. Once these concepts are understood, they can be used to understand the behavior of many devices encountered in everyday life. The sixth edition uses the power of WileyPLUS Learning Space with Orion to give students the opportunity to actively practice the physics concepts presented in this edition. This text is an unbound, three hole punched version. Access to WileyPLUS sold separately.

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This book is suitable for a first year, non-calculus physics course. It covers mechanics, fluids, gravitation, thermal physics, electricity and magnetism, and modern physics, including atoms, an introduction to quantum mechanics, special relativity, and nuclear and particle physics. Trigonometric functions and vectors are introduced as needed.

A user's manual for our everyday world! "Whether a curious layperson, a trained physicist, or a beginning physics student, most everyone will find this book an interesting and enlightening read and will go away comforted in that the world is not so strange and inexplicable after all."
From the Foreword by Carl Wieman, Nobel Laureate in Physics 2001, and CASE/Carnegie US University Professor of the Year 2004 If you didn't know better, you might think the world was filled with magic—from the household appliances that make our lives easier to the CDs and DVDs that fill our world with sounds and images. Even a simple light bulb can seem mysterious when you stop to think about it. Now in How Everything Works, Louis Bloomfield explains the physics behind the ordinary objects and natural phenomena all around us, and unravels the mysteries of how things work. Inside, you'll find easy-to-understand answers to scores of fascinating questions, including: How do microwave ovens cook food, and why does metal sometimes cause sparks in a microwave? How does an iPod use numbers to represent music? How do CDs and DVDs use light to convey information, and why are they so colorful? How can a CT or MRI image show a cross-sectional view of a person without actually entering the body? Why do golf balls have dimples? How does a pitcher make a curveball curve and knuckleball jitter about in an erratic manner? Why is the sun red at sunrise and sunset? How does a fluorescent lamp produce visible light? You don't need a science or engineering background to understand How Everything Works, all you need is an active curiosity about the extraordinary world all around you.

HOW THINGS WORK is about ordinary objects and the physics concepts that make them possible. Its cover illustrates how often waves appears in our world. While ocean surf is clearly an example of waves (p. 250), so is the light from the lighthouse, the rippling motion of the guitar strings, and the sound emerging from the CD in its player. When you pluck a guitar string, you fill it with waves. The strength of these waves and the timbre of the resulting sound depend upon where and how you plucked the string and on the structure of the guitar itself. You can distinguish a guitar from a piano or help by listening for the unique mixture of waves on its strings (p. 242). A lighthouse uses an enormous lens to bend light waves from its lamp into a narrow beam that sailors can see for a hundred kilometers. A large-diameter lens is needed because waves leaving a small-diameter lens spread outward like ripples on a pond and can't stay together as a bright, narrow beam (p. 427). A CD encodes the air pressure fluctuations in sound waves as a pattern of tiny pits on its shiny surface. The CD player reads these pits with a laser to reproduce the recorded sound. Arcs of audio and error-recovery information are arranged in a spiral around the disk's center so that a scratch outward from the middle of the disk is unlikely to cause any noticeable loss of music (p. 424).

Wouldn't it be great if there were a physics book that showed you how things work instead of telling you how? Finally, with Head First Physics, there is. This comprehensive book takes the stress out of learning mechanics and practical physics by providing a fun and engaging experience, especially for students who "just don't get it." Head First Physics offers a format that's rich in visuals and full of activities, including pictures, illustrations, puzzles, stories, and quizzes -- a mixed-media style proven to stimulate learning and retention. One look will convince you: This isn't mere theory, this is physics brought to life through real-world scenarios, simple experiments, and hypothetical projects. Head First Physics is perfect for anyone who's intrigued by how things work in the natural world. You'll quickly discover that physics isn't a dry subject. It's all about the world we live in, encompassing everything from falling objects and speeding cars, to conservation of energy and gravity and weightlessness, and orbital behavior. This book: Helps you think like a physicist so you can understand why things really work the way they do Gives you relevant examples so you can fully grasp the principles before moving on to more complex concepts Designed to be used as a supplement study guide for the College Board's Advanced Placement Physics B Exam Introduces principles for the purpose of solving real-world problems, not memorization Teaches you how to measure, observe, calculate -- and yes -- how to do the math Covers scientific notation, SI units, vectors, motion, momentum conservation, Newton's Laws, energy conservation, weight and mass, gravitation and orbits, circular motion and simple harmonic motion, and much more If "Myth Busters" and other TV programs make you curious about our physical world -- or if you're a student forced to take a physics course -- now you can pursue the subject without the dread of boredom or the fear that it will be over your head. Head First Physics comes to rescue with an innovative, engaging, and inspirational way to learn physics!

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What are simple machines and how do they work? In this book, we'll take a look at some of the most commonly used simple machines with the intention of figuring out what makes them tick. You will soon realize that the mechanisms between each machine is guided by the laws of physics. Are you ready to learn? Then grab a copy today!

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