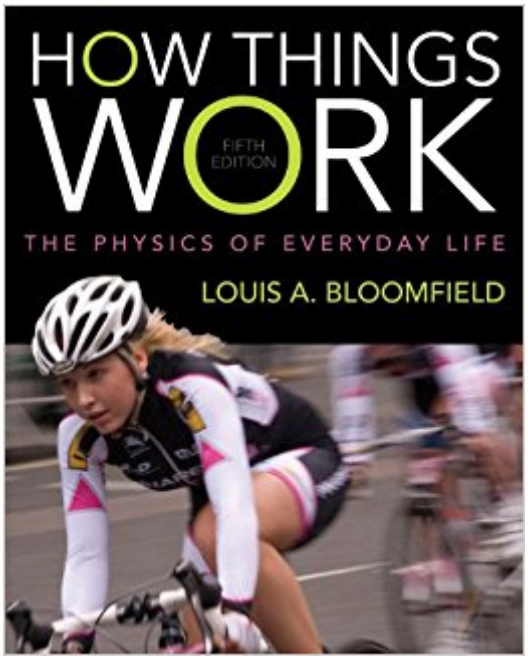
Ebook Directory
the best source of ebook

The book was found

How Things Work: The Physics Of Everyday Life, 5th Edition



PDF
Adobe
DOWNLOAD EBOOK

Synopsis

BloomfieldÃ¢â ¬â„¢s 5th edition of How Things Work includes revisions similar to previous editions including 2 Ã¢â ¬â œ 3 new applications per chapter; the assessment content (eoc problems, test items, etc.) will be refreshed.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. It integrates case studies throughout the chapters to easily convey an understanding and appreciation for physics. For example, discussions of skating, falling balls, and bumper cars are included to explain the Laws of Motion. Air conditioners and automobiles are used to explore thermodynamics. Engineers, architects, and professionals in other technical fields will benefit from the material that connects science to our everyday world.

Book Information

File Size: 45136 KB

Print Length: 592 pages

Simultaneous Device Usage: Up to 3 simultaneous devices, per publisher limits

Publisher: Wiley; 5 edition (January 1, 2013)

Publication Date: January 1, 2013

Language: English

ASIN: B00CUXE8NU

Text-to-Speech: Not enabled

X-Ray for Textbooks: Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #335,641 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #209 inÃ Â Books > Science & Math > Experiments, Instruments & Measurement > Experiments & Projects #901 inÃ Â Kindle Store > Kindle eBooks > Nonfiction > Science > Physics #6461 inÃ Â Books > Science & Math > Physics

Customer Reviews

The reason I bought this book was that I had enrolled for Coursera's online study course, entitled HOW THINGS WORK, led by Prof Bloomfield. Students were not required to buy the book and the

chapters relating to the course were available online. I really dislike reading large format books on a small glowing screen, so I borrowed it from the local library. Six weeks later, when the course was over, I felt I HAD to own the book. It offers a lucid and well-rounded appreciation of the principles of Physics. I was very pleased to be able to afford the paperback version and am delighted to have the most recent edition (the library's edition was maybe 2008).Potential buyers need to understand that this is a text book, not a science popularizer. It is aimed at college-going students. As I did not study the sciences when I was in school and college, I have often wanted to make up the deficit in my understanding. HOW THINGS WORK is really very good for that. It is not intended for casual reading and it does require the reader to concentrate, to think through the many examples and to take notes. I am reading it slowly and expect to work at it over the next two years. Buying it is an investment in my understanding of the mechanics of reality.

I have bought this book because I want to deepen and enlarge my grasp of physics of everyday life, right after attending the Coursera Mooc, entitled Ãƒâ Ã Â« How Things Work Ãƒâ Ã Â», created and animated by Prof Bloomfield, the author of the book.With this excellent textbook with just enough mathematics and a lot of enlightening illustrations, Pr Bloomfield shares his passion for the physics of everyday life and his desire to make it accessible to everyone.The only default of this excellent book is it's price, but the page count is near 600.

Traditional physics books/courses operate like this: The first substantive chapter/unit introduces a few basic concepts. They are related to some real world examples and students then do word problems using these concepts. In the next chapter/unit, a few more concepts are introduced and related to the real world. Students do problems using those concepts. In the next chapter/unit, a few more concepts are introduced ... and so on until a fairly inclusive system is developed. The progression is logical but the whole exercise is somewhat abstract.Bloomfield does it differently. He starts with a real world happening and asks, ÃƒÂ¢Ã â ¬Ã Å“How can this be explained using physics?ÃƒÂ¢Ã â ¬Ã Â• This requires a lot more physics a lot earlier. In fact, the first two chapters (90 pages of 600) expose the student/reader to most of what is normally covered in the first semester of an introductory physics course--more in some ways, since Bloomfield gives a great deal of attention to rotational motion. Many people will find this more interesting but it risks overwhelming the student/reader, like learning to swim by jumping into the deep end rather than slowly proceeding: breathing, floating, kicking, stroking, now put it all together.There is also less math. Bloomfield seems to think that students learn better by working through why something is

happening rather than working through word problems.I found BloomfieldÃƒÂ¢Ã â ¬Ã â„¢s way of developing things fascinating. But IÃƒÂ¢Ã â ¬Ã â„¢m a high school physics teacher who already had a fairly good understanding of the underlying principles. Your mileage may vary.

I have been teaching college physics as my second career for more than a dozen years, and was sorry to see Gerry Wilson's excellent textbook becoming more and more anemic with each edition and new co-authors. In the earlier versions, Gerry conveyed excitement and curiosity in each chapter. It is this aspect that I find so refreshing in Lou's book - his use of "real world" examples to introduce topics that can be tried by the reader if they are unfamiliar to them, and his gentle introduction to the subject. His ability to lead the reader deeper and deeper into the physics concepts as the chapter progresses is done masterfully. I had the pleasure of meeting Lou a few years ago when he gave a local seminar, and he was as bright, interesting and gracious as he appears to be in the textbook. Bravo!

Took a long time to get here plus the paper is super thin. Turn the page a little crooked or open it fast and you'd tear the page.

LOVE IT!!!!

Goes beyond the usual(and good)How Things Work. Louis Bloomfield not only gives you why things work the way they do, he writes in a very understandable way. One doesn't have to wonder if you're ready for physic. A fun book.

I am using this text for Prof. Bloomfield's Intro Physics course How Everything Works on Coursera. The text is very helpful. The first two chapters of the text cover the material in the first course. There will be other physics courses on Coursera and they will probably follow the next chapters in the text.

Download to continue reading...

How Things Work: The Physics of Everyday Life, 5th Edition A History of Everyday Life in Scotland, 1600-1800: A History of Everyday Life in Scotland, 1600 to 1800 (A History of Everyday Life in Scotland EUP) How Things Work: The Physics of Everyday Life Sneaky Green Uses for Everyday Things: How to Craft Eco-Garments and Sneaky Snack Kits, Create Green Cleaners, Remake Paper into Flying Toys, Assemble ... a Robot Recycle Bin with Everyday Things Dance Recital Journal Love Everyday Laugh Everyday Dance Everyday: Lined Notebook for Girls, Perfect Gift for

Dancers ~ Unique Inspirational Quote Diary for Dance Students, Teacher Physics for Scientists and Engineers with Modern Physics: Volume II (3rd Edition) (Physics for Scientists & Engineers) The Physics of Everyday Things: The Extraordinary Science Behind an Ordinary Day The Solid State: An Introduction to the Physics of Crystals for Students of Physics, Materials Science, and Engineering (Oxford Physics Series) Head First Physics: A learner's companion to mechanics and practical physics (AP Physics B - Advanced Placement) Physics for Kids : Electricity and Magnetism - Physics 7th Grade | Children's Physics Books Six Ideas that Shaped Physics: Unit N - Laws of Physics are Universal (WCB Physics) Quantum Electrodynamics: Gribov Lectures on Theoretical Physics (Cambridge Monographs on Particle Physics, Nuclear Physics and Cosmology) Six Ideas That Shaped Physics: Unit R - Laws of Physics are Frame-Independent (WCB Physics) Problem-Solving Exercises in Physics: The High School Physics Program (Prentice Hall Conceptual Physics Workbook) Renaissance: Everyday Life (Everyday Life (Good Year Books)) Middle Ages: Everyday Life (Everyday Life (Good Year Books)) Simple Machines : The Way They Work - Physics Books for Kids | Children's Physics Books The Practicum Companion for Social Work: Integrating Class and Field Work (4th Edition) (Merrill Social Work and Human Services) Live & Work in Belgium, The Netherlands & Luxembourg, 3rd (Live & Work - Vacation Work Publications) How to Use Graphic Design to Sell Things, Explain Things, Make Things Look Better, Make People Laugh, Make People Cry, and (Every Once in a While) Change the WorldÃ Â

Contact Us

DMCA

Privacy

FAQ & Help