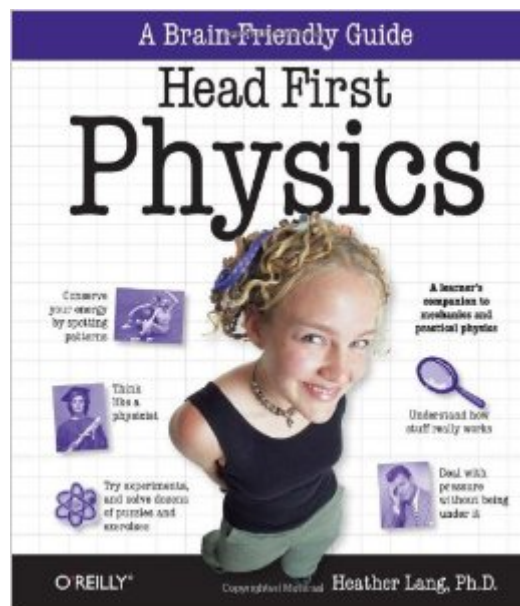


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# Head First Physics: A Learner's Companion To Mechanics And Practical Physics (AP Physics B - Advanced Placement)



## Synopsis

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 the rescue with an innovative, engaging, and inspirational way to learn physics!

## Book Information

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## Customer Reviews

This book is as good any of the Head First books I have purchased and used. In this case I used it to tutor some kids in the mechanics portion of physics. However, be sure to read the ENTIRE title - "Head First Physics: A Learner's Companion to Mechanics and Practical Physics". Thus the emphasis is on the mechanics portion of physics and the tone is practical in nature. There is enough rigor there, but the tone is conversational as in all of the Head First books by O'Reilly. If you are looking for a tutorial on optics, acoustics, electricity and magnetism, and the rest of what composes a college freshman two-semester sequence on general engineering physics prepare to be disappointed - very disappointed. However, that is not what the author is selling you. I wouldn't recommend this as a stand-alone text - I don't think it is rigorous enough to be that. However, as a supplement to a standard college physics text on the mechanics portion of physics, I think it does a great job. It turns the incomprehensible into something that a good student willing to put forth some effort can understand and turns all of the talk of vectors and forces into an approach to mechanics problems that the student can use to attack most mechanics problems. For that purpose I highly recommend it. The student doesn't need to know calculus. The highest mathematics used is trigonometry. The following is the table of contents that is currently unavailable in the product description: Chapter 1. think like a physicist Chapter 2. making it all MEAN something Chapter 3. scientific notation, area, and volume Chapter 4. equations and graphs Chapter 5. dealing with directions Chapter 6. Displacement, Velocity, and Acceleration Chapter 7. Equations of motion (part 1) Chapter 8.

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