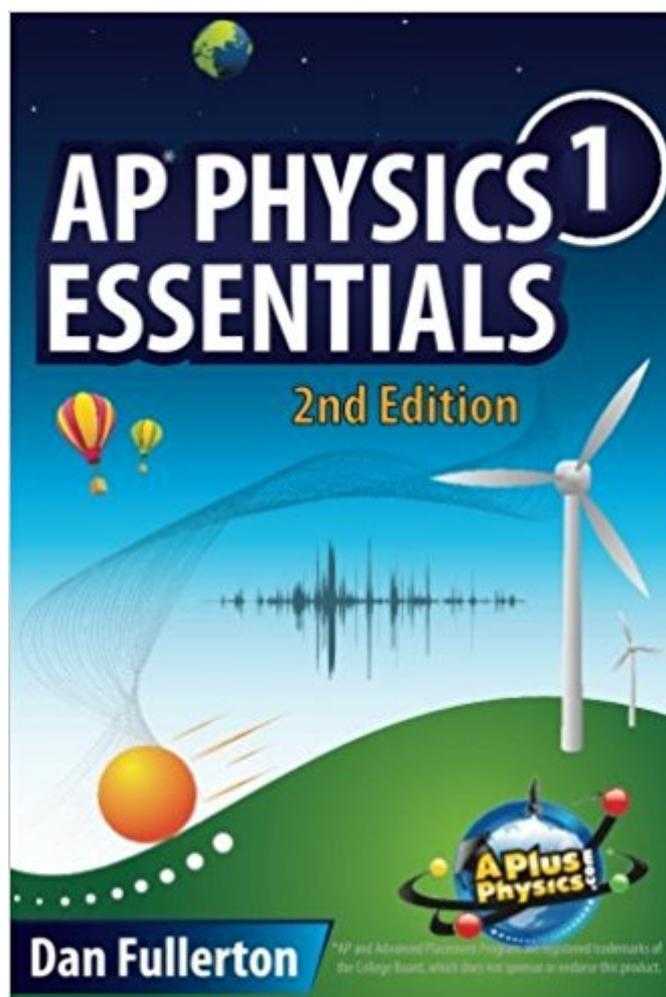


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# AP Physics 1 Essentials: An APlusPhysics Guide



## Synopsis

"The best physics books are the ones kids will actually read." AP Physics 1 Essentials is an easy-to-read guide to the entire AP Physics 1 course, featuring more than 600 worked-out problems with full solutions and deeper understanding questions. AP Physics 1 Essentials covers all major topics included in the AP Physics 1 course, including: kinematics, dynamics, momentum, impulse, gravity, uniform circular motion, rotation, work, energy, power, mechanical waves, sound, electrostatics, and circuits. AP Physics 1 Essentials is integrated with the APlusPhysics.com website, which includes online question and answer forums, videos, animations, and supplemental problems to help you master the essential concepts of physics. This book is designed to assist physics students in their high school AP Physics courses both as a guide throughout the course as well as a review book to assist in end-of-course exam preparation. Its focus is on providing the bare bones, essential concepts necessary for success in the course in a straightforward and easy-to-read manner, leaving development of in-depth problem solving and lab work to the classroom, where it is most effective. In short, this is not intended as a substitute for a standard textbook or course, but rather as an invaluable supplementary resource. This new 2nd edition includes more than 90 AP-style problems to test your understanding and help prepare you for the AP Physics 1 Exam. Additional supplemental problems are available on the APlusPhysics website.

## Book Information

Paperback: 406 pages

Publisher: Silly Beagle Productions; 2 edition (August 28, 2014)

Language: English

ISBN-10: 0990724301

ISBN-13: 978-0990724308

Product Dimensions: 6 x 0.9 x 9 inches

Shipping Weight: 1.5 pounds (View shipping rates and policies)

Average Customer Review: 4.3 out of 5 stars [See all reviews](#) (53 customer reviews)

Best Sellers Rank: #6,842 in Books (See Top 100 in Books) #11 in [Books > Science & Math > Science for Kids](#) #15 in [Books > Textbooks > Science & Mathematics > Physics](#) #48 in [Books > Education & Teaching > Higher & Continuing Education > Test Preparation > Advanced Placement](#)

## Customer Reviews

This book covers the topics of the new exam, technically, but it misses the mark badly on what the

new questions are like. Page through the previews has here, and you'll see example problems that are pure calculation--"Find the speed of..." "Find the acceleration..." But that's not the true nature of the new test at all. On the AP Physics 1 exam, you can expect questions closer to:"You throw a ball of mass  $m$  up at speed  $v$ . It reaches a height of  $h$  before it starts to come down. What could you change in order to make the ball reach a height of  $2h$  before coming down? a) Throw the ball twice as fast. b) Throw the ball  $\sqrt{2}$  times as fast. c) Throw a ball that is half as massive at the same speed  $v$ . d) Throw the ball 4 times as fast."Note what you don't see as any of the options: a solution in meters per second (or any other unit, for that matter). Contrast this to the problems you see in the previews. You don't have to take my word (or anyone else's, for that matter), by the way; College Board released several sample physics problems on their website. Look them over and look at the ones in this book; they're not even close. So although you can get a glimpse at the topics covered in this book, and read what the definition of momentum is and such, the practice problems included here are beyond misleading and shouldn't be used for AP Physics 1 at all. The McGraw Hill guide hits much closer to the mark, as should the as-yet-unreleased Barrons and Princeton Review guides. And if you'd prefer a textbook full of problems that resemble the new course material, check out Knight-Jones-Field's 3rd edition (pink, water drop on cover) or Etkina-VanHuevelen's 1st edition (bicycle wheel on cover).

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