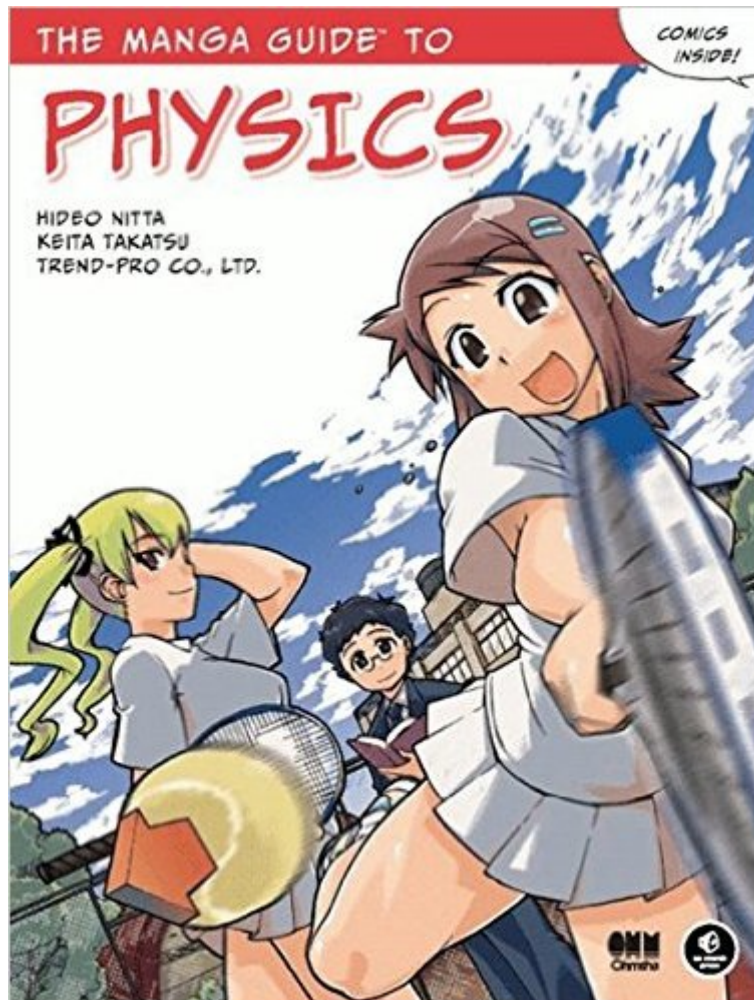


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# The Manga Guide To Physics



## Synopsis

Megumi is an all-star athlete, but she's a failure when it comes to physics class. And she can't concentrate on her tennis matches when she's worried about the questions she missed on the big test! Luckily for her, she befriends Ryota, a patient physics geek who uses real-world examples to help her understand classical mechanics-and improve her tennis game in the process! In *The Manga Guide to Physics*, you'll follow alongside Megumi as she learns about the physics of everyday objects like roller skates, slingshots, braking cars, and tennis serves. In no time, you'll master tough concepts like momentum and impulse, parabolic motion, and the relationship between force, mass, and acceleration. You'll also learn how to: Apply Newton's three laws of motion to real-life problems Determine how objects will move after a collision Draw vector diagrams and simplify complex problems using trigonometry Calculate how an object's kinetic energy changes as its potential energy increases If you're mystified by the basics of physics or you just need a refresher, *The Manga Guide to Physics* will get you up to speed in a lively, quirky, and practical way.

## Book Information

Age Range: 9 and up

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## Customer Reviews

I think that this book would be an excellent introduction to physics for teens and adults alike. My initial impression of the book is probably tainted by my previous exposure to physics, which were presented in a complete flat and rigid way compared to the content of this book. I believe that those who are not already through college undergraduate-level physics would benefit the most from this

book. I'm certain that the presentation method is easier to accept and is certainly more interesting for all. I found that the first chapter labored a bit on the lesson, but that subsequent chapters went by rather efficiently. Then there was the "inner-geek" in me who loves continuous mathematics who wanted to argue that the ball-in-hand is not a static state but dynamic, though for the purposes of the book, the explanations were appropriate. As far as the story goes as presented by the illustrations, I found a bit to dislike. The characters exhibited extremely wide ranges of emotions from seething rage to adoration, sometimes as quickly as within a couple of pages. While this may help bolster the effect of the lesson, I found it distracting and overstated. Of course, my opinion is based on my exposure to this kind of material, and this is a first of such trips into the realm of Japanese manga. I would strongly like to offer the book to a 15-16 year old who is pre-high school physics and take their reaction as input to this review because I think that we'd have a profound effect compared to handing Cutnell's "Physics" 0471663158 (1088 pages) to a teenager.

I'm going to tell you flat out: I hated Physics. How did hatred start? Well, I had never taken a physics class in my life until this semester in college. My pre-med adviser told me to take Physics with Calculus since Universities will see that I challenged myself. I was like: Sure, I like Calc, and people say that Physics is all math, right? Wrong! Okay not completely wrong, but if you don't understand the basic concepts of physics you're kinda screwed. And my professor explained the concepts POORLY by just putting a billion derivations of formulas via calculus and expecting us how to apply it in problems. Then I take my first test, which I BOMBED! I am a 4.0 student and I studied my butt off for this test and got a 55. O\_O So yeah, I really started to hate physics. Then as I was browsing online for physics prep books I came across this little book. My eyes couldn't believe it, cuz I ADORE manga, and decided to see if this book could fill in the missing links that my professor didn't explain. Luckily I found this badboy at my library and read the whole thing in a day, and I was like: So that's what my professor has been trying to tell me! It gave real world situations, which help me understand more. And I love the art. A real eyeopener. I was even ahead of the class when we got to the topic of momentum. It is such a good book and I recommended to my friend who is in my class, but he just laughed at me (he doesn't read mangas or comics, so he doesn't appreciate). It helped me on my second test and I got an 83: Not the best grade but when you start out with a 55, then 83 is a blessing.

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