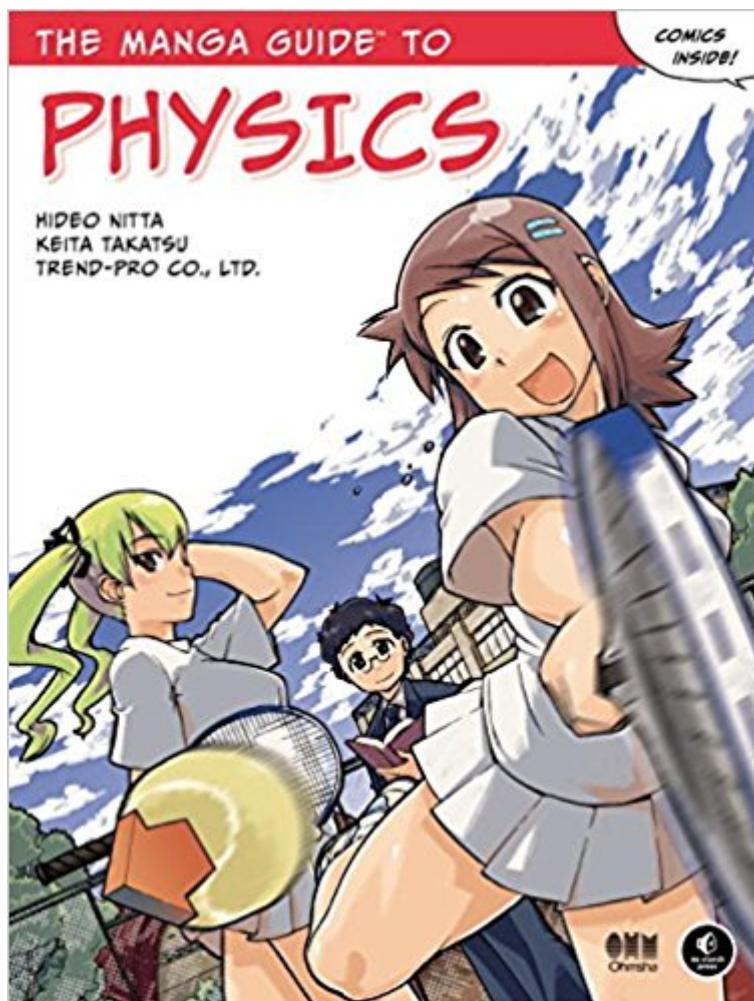


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# The Manga Guide To Physics



## 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 mechanicsâ "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:â "Apply Newton's three laws of motion to real-life problemsâ "Determine how objects will move after a collisionâ "Draw vector diagrams and simplify complex problems using trigonometryâ "Calculate how an object's kinetic energy changes as its potential energy increasesIf 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

Series: Manga Guide To...

Paperback: 248 pages

Publisher: No Starch Press; 1 edition (May 1, 2009)

Language: English

ISBN-10: 1593271964

ISBN-13: 978-1593271961

Product Dimensions: 7.1 x 0.6 x 9.2 inches

Shipping Weight: 1.1 pounds (View shipping rates and policies)

Average Customer Review: 4.6 out of 5 stars 46 customer reviews

Best Sellers Rank: #84,870 in Books (See Top 100 in Books) #11 inÂ Books > Comics & Graphic Novels > Manga > Educational & Nonfiction #54 inÂ Books > Children's Books > Education & Reference > Science Studies > Physics #130 inÂ Books > Education & Teaching > Schools & Teaching > Instruction Methods > Science & Technology

Age Range: 10 and up

Grade Level: 5 and up

## Customer Reviews

"I found the cartoon approach of this book so compelling and its story so endearing that I recommend that every teacher of introductory physics, in both high school and college, consider

using it." "American Journal of Physics" This is a perfect introduction to four key physics concepts—law of action and reaction, force and motion, momentum, and energy—especially for fans of anime and manga."

Hideo Nitta, PhD, is a professor in the Department of Physics at Tokyo Gakugei University. He has had many papers and books published by Japanese and overseas publishers on subjects including quantum dynamics and radiation physics. He also has a strong interest in physics education. He is a member of the International Commission on Physics Education (ICPE), which is a commission of the International Union of Pure and Applied Physics (IUPAP).

My school's physics teacher actually recommended this book to me! I was too intimidated by physics, as a subject, to actually take the class(es) he was teaching, but I sought him out quite a lot to ask him questions and get clarification on things that I was trying to learn on my own. Apparently, I did this enough that, finally, he showed me this book and recommended I read it for myself. He said it was super helpful for both people beginning to study physics and people needing a refresher. He's actually assigned it as summer reading for his kids over the summer. Having finished it quite a while ago, I have to say, its main priority is definitely teaching physics, rather than plot. I'd say a good 85% of the pages are largely devoid of actual, anime drawings and dedicated mostly to long equations, math work, and explanations of basic physical concepts and the more advanced mathematics. This is frustrating because, sometimes, all you want to do is get back to the anime drawings so your brain can take a break from what feels a bit like reading a textbook; other times, though, it's really helpful to have the topics that were briefly introduced during the anime-drawing, plot-heavy part of the book explained in more depth. Overall, I'd say this book is tons more fun than a textbook! There's absolutely no doubt about that. Happily, I also don't think you're sacrificing much—if any—of the educational quality you might get from a textbook. I mean, this book covers some serious physics, but it balances that heavy-duty, headache-inducing material with fun, light-hearted plot points and humor. Bravo, guys. I'm really grateful for this book.

Good for high school students, or college students who want a review. I wouldn't try to learn straight from this book only. I used it to supplement my college physics course. It mostly helped me understand concepts, not how to do the actual math required. You would certainly need to also read the textbook. I would go for a Schaum's book if you just need math help. This book has a little manga style story as well, to motivate the progression. I liked that.

Aced my forces/impulse test! I love physics, and this was a cute and super fun way to review what I learned from class. I admit that there are some, to my chagrin, gratuitous drawings of the rival character. In addition, I definitely don't recommend using this if you don't know anything about or haven't taken or studied physics before. That will overcomplicate everything. This book is:- Cute-Enjoyable to read- Simple real-life applications used as examples- Accurate (Most of its content was what we learned in class.)It's relatively memorable and very helpful. In fact, I had a quiz on impulse and there was (BEHOLD!) a question about applying force to a tennis raquet. I immediately thought of Megu trying to "follow through" when she returned the ball so she could increase impulse. And yes, I did get the question right! ;D

I bought this and The Manga Guide to Calculus at the same time, and this one does a better job on the concepts and formula's. This book contains basically everything you need to get through the first semester of Calculus based (called Physics for Science and Engineering I at my school). It has a wonderful story with examples and application to the real world and explains the basics very well, then at the end of each story section they get into the hard physics with breakdowns of the functions of all the formulas from that section, good descriptions of when and how to use them, and practice problems to make sure you are ready for the following section.

This is a fantastic series. Physics has the benefit of having many real-world examples to draw on, and the artist captures the motion and concepts very neatly. Even some of the stranger ideas are cleverly reiterated through the protagonist's "everyman" reasoning. At the end of each section, there is a review of the concepts, but the explanations are pretty in depth! I was able to understand more in those little back pages than whole chapters of my textbook. I highly recommend this book for new physics students.

When I was a college student I read the Manga Guide to Databases for funsies. Since then I own almost every Manga Guide that have ever been published. They are written much like an edutainment tv show, with simplistic story/characters to put more emphasis on the lessons. Each book typically follows a young, school aged boy or girl. Be warned if your teen think they're "too cool for school" or "too old for comics", they probably will not think kindly of this gift. The concepts are understandable within the comic in most cases. If not, each chapter ends with a text-only lesson guide that summarizes. Often the text goes into greater depth/detail than the comic itself. Physics

itself requires a certain level of prior mathematical understanding (around Pre-Calculus or above). I would recommend this for high school level or above. Even better is if the reader is taking physics that year, it can supplement their learning. I never had the opportunity to take Physics until college, but even still I found the class and the book enjoyable.

Really helped me to understand physics in a much better way than I had previously. I would recommend this to anyone struggling with wrapping their mind around the basic concepts of physics.

This is an amazing book. It is interesting and I find myself learning more by following an interesting story than listening to an 800 year old man explain physics works. This book was suggested by one of my teachers and I enjoyed it so much that I bought the whole series. I highly recommend this.

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