



# The Manga Guide to Physics

*Hideo Nitta , Keita Takatsu , Trend-Pro Co. Ltd.*

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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.

## The Manga Guide to Physics Details

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# From Reader Review The Manga Guide to Physics for online ebook

## Parka says

There are so many genres of Japanese comics that it doesn't come as a surprise that there's a series dedicated to teaching subjects that are normally taught in schools.

The Manga Guide to Physics is a great introduction to physics. It has a very simple but entertaining storyline, one about the lead Megumi trying to learn physics so that she can defeat her opponent in a tennis match. Compared to thick physics textbooks, it's certainly a more interesting way to learn physics.

The different concepts of physics are explained and illustrated by using real life examples. You get to learn about how forces work in a tennis match, the safety distance to keep while driving a car, how to get yourself back to the space shuttle using just a wrench, etc. The situations are not too complex, but always towards explaining a certain concept, and does so effectively.

There are four chapters, namely Law of Action and Reaction, Force and Motion, Momentum and Energy. The content is presented one part in manga format, and after each chapter a summary which is more technical in text format with diagrams.

This is a helpful and engaging teaching tool, one that successfully tackles a seemingly intimidating and dense subject as physics. I showed the book to my colleague who used to be a physics teacher and he was very impressed.

This book is highly recommended to anyone interested in learning physics.

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## Selena says

Not much of a "manga guide." While there was a lot of information in the manga, there was a lot of pages that made me think "text book." The pictures were helpful and the manga helpful for the concepts, but for actually using the concepts for anything, you gotta rely on the "text book" pages.

And honestly, I found the muscle-men kinda creepy... No face. Just muscles. ...\*shudder\*

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## Maha Balouch says

I adore this book. It made a subject that I look at as pure torture in a way that I can understand. Through demos, Megu learns from Ryota the physics of a tennis game that she wants to win so bad.

Concepts such as momentum, energy, work, Newton's laws of motions, velocity and much more was clarified for me. I'm so glad I read this.

I got this from a library, but I just might buy it for future reference.

Definitely recommend!

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## Soobie's scared says

Neanche un miracolo riuscirebbe a far sì che la sottoscritta capisse qualcosa di fisica...

È un preambolo necessario questo. Perché Soobie, cucciola, appena vede formule e numeri va in confusione. Il suo cervello non è fatto per questo cose.

Quindi, sì, per un po' sono riuscita vagamente a seguire le spiegazioni sulle leggi di Newton. Poi dal mio cervello sono uscite i proverbiali sbuffi di fumo e mi son limitata a seguire la storiella della protagonista e del suo insegnante di fisica. Ma è sempre lui che insegna qualcosa a lei? Mai il contrario. Soliti maschilisti!!

Va beh, ormai ci ho preso gusto. Leggerò anche gli altri. Appena mi arriveranno.

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## Rachel says

I admit it, I skipped the textbooks sections ><. A very instructive comic though!

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## Raxilia Running says

Se quando andavo a scuola mi avessero spiegato i principi della fisica in questo modo, di certo ci avrei capito qualcosa di più, rispetto al modo stantio e confuso con cui il professore di fisica ci esortava a imparare a memoria le formule, senza riuscire a farne un esempio concreto lui per primo.

(Fun fact: il mio primo prof era un ingegnere così poco competente che aveva sbagliato le misurazioni per la costruzione di un nuovo palazzetto dello sport, che era stato lasciato a metà proprio a causa della sua incompetenza; l'altro era convinto che tutti gli studenti non avessero voglia di fare niente quindi ripeteva la lezione a pappardella leggendola da un foglio e chi s'era visto, s'era visto).

Credo che la forza maggiore di questo volumetto - che ovviamente non ha nessuna intenzione di spiegarti tutta la fisica ma si concentra sui principi basilari della fisica del moto - sia stata proprio riuscire ad applicare formule all'apparenza molto teoriche e complesse a fenomeni che accadono nella vita reale e a fornire quei principi su cui si può ragionare per ricavare le formule, piuttosto che limitarsi a memorizzarle.

I disegni, poi, sono molto carini e le pagine dedicate all'approfondimento teorico molto complete (certo, non ho mai studiato gli integrali in vita mia ma non è mai troppo tardi per imparare, un?). Unica pecca: le tavole ribaltate per leggere il manga "alla occidentale". Nel 2017 se ne potrebbe anche fare a meno, sinceramente.

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## Lynn says

A fun learning book for Physics, but hardly a textbook.

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## **Canesgalactica says**

While I think this book does a wonderful job of describing the concepts of physics alongside comics to illustrate them, this book falls short on fully teaching one about the mathematical side of physics (IE. if you lack a working understanding of trigonometry or calculus, chances are you will be really lost for good portions of this book where they go into detail about the equations).

Otherwise, it is good at illustrating the concepts in a way that is easy for most people to understand (visual learning seems to be a popular method of learning).

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## **Anand Mandapati says**

Fun way to re-learn the basics of physics (specifically statics and dynamics). I wanted a refresher after not having done anything with this stuff since college more than a quarter century ago. The book has a very weak, but sufficient, story to drive the teaching along. It covers Newton's three laws of motion, the basics of vectors and scalars, velocity, acceleration, force, momentum, impulse, and kinetic and potential energy. I wish it had also covered angular momentum but it's not too hard to figure out on your own with the material in this book. You do need to be decent at algebra to read this book and it has some calculus though they warn you about it and you could consider it optional if you wish to skip it. This was better than reading about the material in a more dry, but comprehensive text.

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## **Kam Yung Soh says**

An interesting Manga-style book that teaches some of the basic concepts of classical physics.

At the beginning, one character has just been defeated in a game of tennis while being bothered by the physics involved in tennis. Another character offers to coach her in physics, so that she can defeat her opponent the next time they meet.

Beginning with Newton's Third Law (action and reaction), they move on Newton's Second and First Laws (on force, mass and inertia) and tie that in to momentum and energy. Having learned them, she is now ready to use physics in the tennis match against her opponent.

The graphics attempt to explain what Newton's Laws mean and how they work and mostly succeed. But it probably better for the reader to be already familiar with the laws and treat this book as giving them a deeper and more practical appreciation of how the laws work.

Boxes with more detailed understanding of the physical laws are provided and the end of the chapters.

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## **Eric Mesa says**

This Manga Guide has more of a story than the electricity one, but less than the calculus one. The style is very wacky - like a comedy manga and it reminds me a lot of Azumanga Daioh with all the digressions, daydreams, and general surrealism. It does a good job explaining physics, especially if you're learning physics without calculus. Like many other books in this series, it uses real world examples (primarily tennis in this book) to explain the principles and why a student should bother learning physics if they aren't going to become an engineer or scientist.

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## **Sean says**

I actually read this book in hopes of suggesting it to read for my 9th/10th grad physics students. I thought the characters/drawings would be appealing. But I actually found the contents of the book more suitable for my 11th/12th grade physics students. It went into good depth and exploration of mechanics physics topics. This is a good supplemental text for late-High School or Physics 1 in college.

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## **Yoki says**

i did not finish reading it

but it is fun and relate physics to real life (specially sport yay :) )

and after the manga they give you more informations in details

the manga drawing is good and the story teller are good and fun

they even copied sherlock holmes and watson lol

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## **Jacob says**

Tackles a complex topic pretty well, and serves as a nice introduction to the subject of physics, specifically classical mechanics. If you're struggling in a physics class, I recommend this book.

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## **Rachel says**

I LOVE this idea- using the graphic novel format to teach complex topics. I've been following the rise of the non-fiction graphic novel very closely. I think they are brilliant teaching tools. They can reach students who might otherwise be struggling.

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