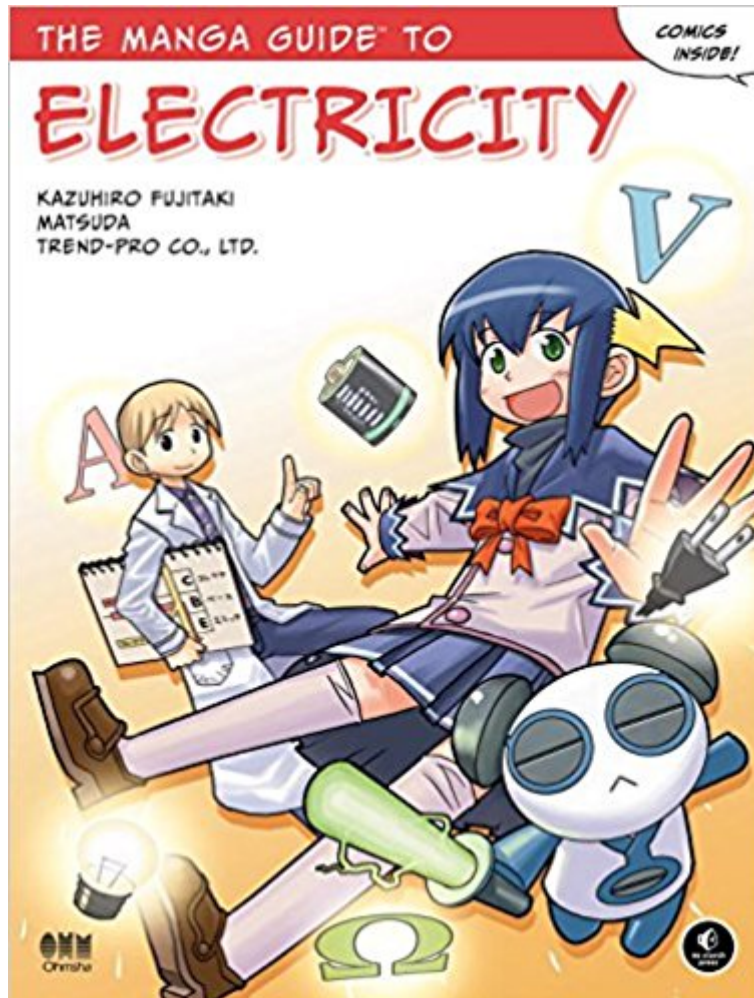




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# The Manga Guide To Electricity



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## Synopsis

Rereko is just your average high-school girl from Electopia, the land of electricity, but she's totally failed her final electricity exam! Now she has to go to summer school on Earth. And this time, she has to pass. Luckily, her ever-patient tutor Hikaru is there to help. Join them in the pages of *The Manga Guide to Electricity* as Rereko examines everyday electrical devices like flashlights, heaters, and circuit breakers, and learns the meaning of abstract concepts like voltage, potential, current, resistance, conductivity, and electrostatic force. The real-world examples that you'll find in *The Manga Guide to Electricity* will teach you:

- What electricity is, how it works, how it's created, and how it can be used
- The relationship between voltage, current, and resistance (Ohm's law)
- Key electrical concepts like inductance and capacitance
- How complicated components like transformers, semiconductors, diodes, and transistors work
- How electricity produces heat and the relationship between current and magnetic fields

If thinking about how electricity works really fries your brain, let *The Manga Guide to Electricity* teach you all things electrical in a shockingly fun way.

## Book Information

Age Range: 9 and up

Series: Manga Guide To...

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## Customer Reviews

Kazuhiro Fujitaki is a lecturer at the Tokyo Metropolitan Vocational Skills Development Center. He has written a number of books on electrical engineering and runs a website offering useful

information about Japan's qualifying examinations for electrical technicians

This book is a nice alternate source of information for electricity. This is one of several Manga Guides that we have purchased for our teen. This one has been read by the entire family (age 9yo and up), and everyone agrees that it is a good Manga Guide (none are bad, but each have their own story line and style). There is the usual Manga storyline, with additional pages of text to explain various complexities. We were selecting books to send to a teen male relative and decided that a Manga guide would be fun since this teen enjoys Manga. Through discussion of the various merits of each of the Manga Guides we own (about 10 of them), everyone agreed that this one on electricity was the one to send as this teen likes engineering. Overall a good purchase and we are hoping that the teen enjoys the book.

This book is fantastic. I was expecting it to be a little too basic, but it really did help with the conceptualization of the various topics. I had no idea what I was doing, and was very confused. I felt really stupid, as I couldn't figure out why I couldn't get it right. I read this book and almost immediately understood what I was doing wrong, and suddenly the math made sense. I ended up tutoring my friends and classmates too, and we all passed - me with an A. I'll definitely be buying more of this series, and would recommend to any college student needing a little help (admittedly cheesy, but gets the job done!) passing the semester.

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. 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. Electricity is a concept that requires some prior mathematic understanding (unit conversions, fractions, algebra), so I wouldn't recommend this for very young readers. I would say this is a good choice for a high-school student or a high-level middle schooler. However, as a college student I enjoyed it very much and learned very much from it, having never dealt with electricity much in school as it was.

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 the subject matter while reading from a book.

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.

I bought this book twice. I sort of ruined my first copy. But I got nostalgic and bought it again. It is a very fun to read book. Will buy it again if I ruin this copy too. :(

I bought this for my daughter, she likes manga and I like electronics, thought it would be a good starting point for some father-daughter bonding. Unfortunately, although I've had the book for a week, she hasn't been able to get it out of my hands yet. I know the basics of electronics, but this book describes the details in an easy to read and understand manner. Each section has the comic, illustrations provide details that would be hard to convey in the comic book format, but at the end of each section is a very detailed and informative block of text. From this book, I now understand the inner workings of my Arduino and Netduino projects. I'm no longer limited to just blindly hooking up components per a schematic I downloaded, I can now design some of those circuits myself. Very good book, highly recommended.

I bought this book because I'm having trouble understanding physics concepts at school, like what volt would mean and a.c generators. I like this book because it explains everything very clearly, and the pictures help to imprint it in the mind, plus the story line links everything together so its coherent and can be read in one go. I seriously recommend this book for anyone who is interested in physics or is very muddled up in the basic concepts (It also covers a little bit of chemistry when it talks about electrolysis and making a cell). It's good quality book and can even entice my little sister (who doesn't like to read) to pick it up even though she isn't even taking physics.

illustrations are very majestically written and organized. This makes for a easy to understand for people that have inquiry in the basics of electricity and what makes it work. You also get a way to know how the consumers appliance use affects their power bill and the equations used in determining those numbers by which the cost is derived. The manga also helps out with a bunch of other examples also.

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