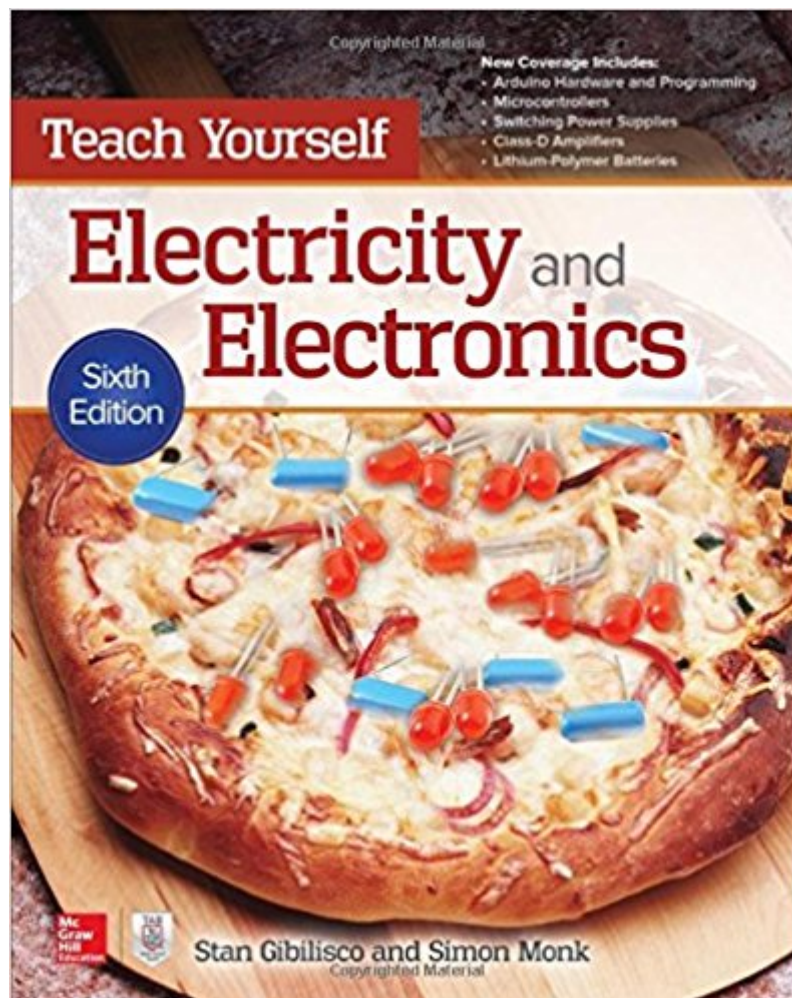




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# Teach Yourself Electricity And Electronics, Sixth Edition (Teach Yourself (McGraw-Hill))



## Synopsis

Learn electricity and electronics fundamentals and applications – all without taking a formal course! This fully updated guide offers practical, easy-to-follow instruction on electricity and electronics. Written by a pair of experienced instructors, Teach Yourself Electricity and Electronics, Sixth Edition, features plain language explanations and step-by-step lessons that make it easy to understand the material quickly. Throughout, detailed illustrations, practical examples, and self-tests reinforce key concepts. Inside, you will find all-new coverage of switching power supplies, class-D amplifiers, lithium-polymer batteries, microcontrollers – even the Arduino electronics platform. This up-to-date sixth edition covers:

- Direct Current (DC) Circuits
- Resistors
- Cells and Batteries
- Magnetism
- Alternating Current (AC) Circuits
- Inductors and Capacitors
- Phase
- Inductive and Capacitive Reactance
- Impedance and Admittance
- AC Power and Resonance
- Transformers and Impedance Matching
- Semiconductors, Diodes, and Transistors
- Integrated Circuits (ICs) and Electron Tubes
- Amplifiers and Oscillators
- Wireless Transmitters and Receivers
- Digital Circuits
- Microcontrollers, including the Arduino
- Transducers, Sensors, Location, and Navigation
- Acoustics and Audio
- Lasers
- Advanced Communication Systems
- Antennas for RF Communications

## Book Information

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## Customer Reviews

Fig. 26-6 Functional diagram of a class-D audio amplifier.

Fig. 30-7 An Arduino measuring its own voltage.

Stan Gibilisco, an electronics engineer and mathematician, has authored or co-authored dozens of books, including *Ham and Shortwave Radio for the Electronics Hobbyist*, *Electronics Workshop Companion for Hobbyists*, and *Making Everyday Electronics Work*. Simon Monk has a degree in cybernetics and computer science and a Ph.D. in software engineering. He is the author of numerous books, including *Programming Arduino: Getting Started with Sketches*, *30 Arduino Projects for the Evil Genius*, *Hacking Electronics*, and *Fritzing for Inventors*. Simon also runs the website [monkmake.com](http://monkmake.com), which features his own products.

I am an electrical engineer, bought this book for my friend, by his request. So, this book is a entry level of EE and I think it is quite simple for smart people who intend to teach themselves

Clearly written textbook for introduction to electricity and electronics concepts.

Had to give it to my grandson, will be ordering another copy soon

excellent for selfstudy.

Took electronics in high school (55 yrs ago) and wanted to re-familiarize and update my knowledge. This text, and other such self-teaching texts I have started, simply do not adequately explain many basic concepts - - lucky me that I recall most of that missing detail.

A great updated edition for those who might be looking for a refresher course, or just simply a beginner/maker in the field of electricity and electronics. Some sections may come across a bit intimidating, but the text is written well enough for even the beginner to understand. I had first seen the 5th edition of this book at my local bookstore; thinking that this book had too many chapters/subsections to be that all that thorough and in-depth, but I quickly learned that this book didn't lack anything at all. I was amazed at how well everything was laid out. The material is presented in such a way that makes everything so very easy to learn without all the confusion at the same time. After completely enjoying the 5th edition, I was anxious for the arrival of this new and updated 6th edition. If you're looking for a well rounded text, than this new edition may be right for you. The biggest difference between editions is that the 6th edition now includes Audrino hardware and programming, an improved Microcontrollers section, and other updated information of other sections, as well as updated practice tests and exams. I strongly recommend this book first over any of those expensive textbooks out there. After All, if you're out to achieve a good understanding of electricity and electronics, or studying for an entrance exam for a technical job position, this book will help you do that. It's a great book for teaching you the subjects of electricity and electronics, that later tests your knowledge of it. I highly recommend this updated edition of "Teach Yourself Electricity and Electronics, 6th edition," as well as any other Stan Gibilisco and/or Simon Monk book.

I've read lots of books on electricity and electronics and this 745-page volume is by far the best. It starts with the basics, assuming no prior knowledge on the part of the reader, and gets into some really advanced topics including characteristic impedance, solid-state electronics, classes of amplifiers and everything in between. There is an excellent section on lasers, describing in detail the many types. Stan Gibilisco and Simon Monk, joint authors, have written many, many books on electronics, computer technology, physics and many other topics. They have always been inspirations for me and here they have gotten together and produced a magnificent work. I highly recommend it for readers at all levels.

I was an electronics technician in the 80s, and I bought this book to brush up. I searched through many similar books, and read examples of several on my Kindle before settling on this one. I love it, and I've learned so much. Very well written, and actually enjoyable to read.

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