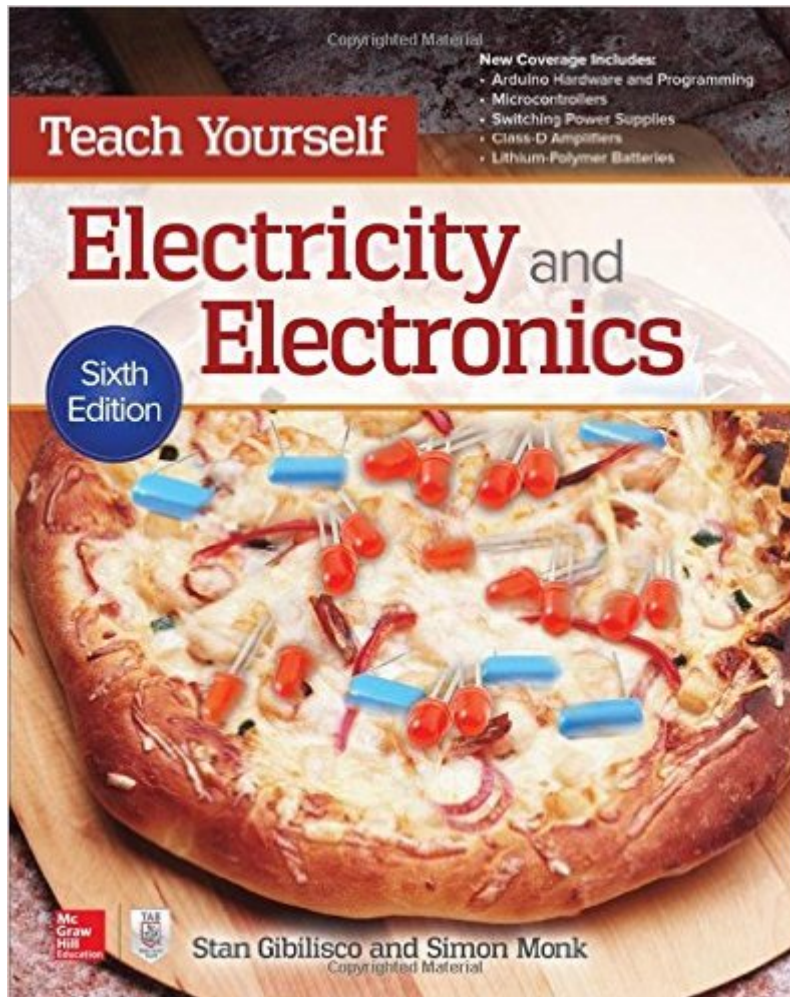


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# Teach Yourself Electricity And Electronics, Sixth Edition (Teach Yourself (McGraw-Hill))



## 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'll 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

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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.

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.

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. At first glance, these subjects may be a bit intimidating for the first time, 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. At first, I thought that possibly it had too many chapters/subsections to be that thorough/in-depth. I quickly learned that this book didn't lack anything at all. I was amazed at how well everything was laid out. The material was presented in a way that was very easy to learn, while being thorough and not confusing 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. Also, if you have already mastered the quizzes and practice tests in the 5th edition, there are updated quizzes and practice test in this edition as well. I highly recommend "Teach Yourself Electricity and Electronics, 6th edition, instead of purchasing any expensive textbook. 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, and then 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 books.

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

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