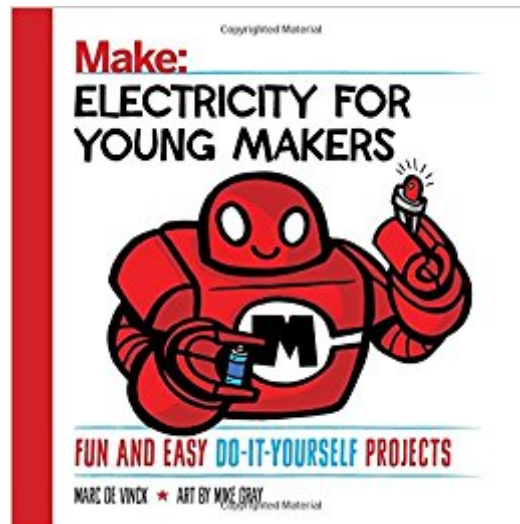




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Electricity For Young Makers: Fun And Easy Do-It-Yourself Projects



Synopsis

Learning to be a maker has never been more fun. Lavishly illustrated with cartoons and drawings, this book guides the reader through six hands-on projects using electricity. Discover the electrical potential lurking in a stack of pennies - enough to light up an LED or power a calculator! Launch a flying LED copter into the air. Make a speaker that plays music from an index card. Build working motors from a battery, a magnet, and some copper wire. Have fun while learning about and exploring the world of electricity. The projects in this book illuminate such concepts as electric circuits, electromagnetism, electroluminescence, the Lorentz force and more. You'll be amazed by the results you get with a handful of simple materials.

Book Information

Series: Young Makers

Paperback: 82 pages

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Average Customer Review: 4.7 out of 5 stars 4 customer reviews

Best Sellers Rank: #227,199 in Books (See Top 100 in Books) #62 in Books > Children's Books > Science, Nature & How It Works > Inventions & Inventors #73 in Books > Science & Math > Physics > Electromagnetism > Electricity #139 in Books > Children's Books > Science, Nature & How It Works > Experiments & Projects

Age Range: 8 - 12 years

Grade Level: 4 - 7

Customer Reviews

View larger Welcome to the World of Electricity and Electronics Hi! I'm Makey! Have you heard about the movement that's sweeping the globe? The one where people design, build, and share their creations and ideas with one another? It's called the Maker Movement! I was created to make, and I love to help people become Makers. In this book, we're going to make stuff that will amaze and surprise you, make you see electricity in a different light, and, at the very least, put a smile on your face. That's because the projects

are flat out fun! Along the way, you may even learn a few things that will help you in your science classes and maybe lead you to a career someday as an inventor, engineer, or scientist. You don't have to read the whole book from cover to cover before you start making, but it's best to read each project all the way through before you start on it to be sure you know where you're going. I like to do the projects in order because they get a bit more complicated as the book goes along. Let's get making!

In 2012, Marc was challenged with both developing and teaching in the Masters of Engineering in Technical Entrepreneurship program at Lehigh University. Prior to this, he was director of product development at Make: magazine and a member of the Make: Technical Advisory board. He has written numerous posts and articles on do-it-yourself science and technology for Make: Marc previously worked in fields as diverse as traditional metalsmith, illustrator, and 3D model maker. He thrives on the process of making and educating, with one of his greatest career accomplishments the implementation of Maker Faire's Learn to Solder program, which taught more than 10,000 people a lifelong skill. Other interests include microcontrollers, open source hardware, and interactive art. When he is not developing a new product in his studio - a rare occurrence - you can find him skiing, playing ice hockey, or sailing with his family.

This is a clever, well-conceived, well-executed book for curious young minds prepared by science-loving science nerds. I always say, if you want to learn something, find someone who loves it and ask them to mentor you. This book is just such a meeting of the minds and hearts. Everything from the full-color graphics to the comic-books type layout, to the font says "Science is fun!!" Some projects will be easy to pull together with things you have on hand; many require purchasing some (usually inexpensive) details (like an LED light or some wire on a spool) to complete them. Don't be cowed by the need to go to the hardware store - honestly, such a trip is an education in and of itself, and you should do it often to help nurture science loving kids. Plus, it will likely introduce you to other science-loving prospective mentors, and just looking at the rows and rows of materials is fodder for creative minds to get thrilled about. Apart from being creative and expansive, this book is also quite forward thinking in that the characters depicted are old, young, light, dark, boy, girl, shaggy-, kinky-, or straight-haired, etc. The subliminal is that "science is for everyone" and it's not unlikely that your kids will identify with the characters shown taking part in the projects. This book is also very practical and anticipates likely flubs or misstarts; there is often a section in a given project that troubleshoots reasons why you might not have had the expected results, or warns of this or that

thing that might go wrong. The projects are fun and interesting, and the explanations help the user understand how it's relevant in the real world. As you can see, I love this book, and will look for others in the series. It is recommended by the publisher for ages 8-12, but I would think that mechanically minded kids might get into it earlier (with additional adult help/supervision) and will certainly enjoy such projects even beyond the age of 12. In our home we'll probably have a 17 year old boy coaching his 11 and 13yo sisters in the projects. The only reason I docked one star is that it was not packaged well, and came with a spine crimped in two places, making it difficult to gift with confidence. If it had been shipped securely I would have given it 5 stars.

It is rare that I get this enthusiastic about a review. This book is deserving of that kind of enthusiasm. Whether you have a youngster (even as young as 7 or 8 possibly) or an adult, this book should nurture and inspire a love of electricity in anyone who is interested in science. The projects are simple but stunning. For instance, using a few pennies, some cardboard soaked in vinegar and an LED and you have created your own battery and powered a light. How awesome is it for a kid (or adult) to make their own battery? Or a speaker? With a few windings of a wire, into a coil, and some index cards, you have a speaker. There are many more that are all equally amazing and teach the basics of electricity with crystal clear lucidity, they are easy to do, require only household items and have that "wow" factor that will amaze and captivate any audience. This would be a GREAT primer for anyone wanting to start a science oriented youtube channel as well. Well worth the money and a great learning tool. One last thing, this would be great for a STEAM or STEM teacher looking for projects or lab lesson plans.

My 12 year old Rent A Kid loved this book -- he did all the experiments and clearly learned the lessons very well. Frankly, he did them quicker and better than I did, but I really enjoyed doing them and learned a great deal -- perfect grounding -- as it were -- for an 80 year old liberal arts major with a mild interest in science and DIY projects. Beautifully and cleverly written -- an absolute joy. Robert C. Ross
September 2017

This book is excellent. It is loaded with a ton of electricity based experiments that are all fairly simple to do. You will need to buy some supplies to get some excitements to work, but nothing expensive or hard to find. Instructions are easy to follow, which is a huge plus.

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