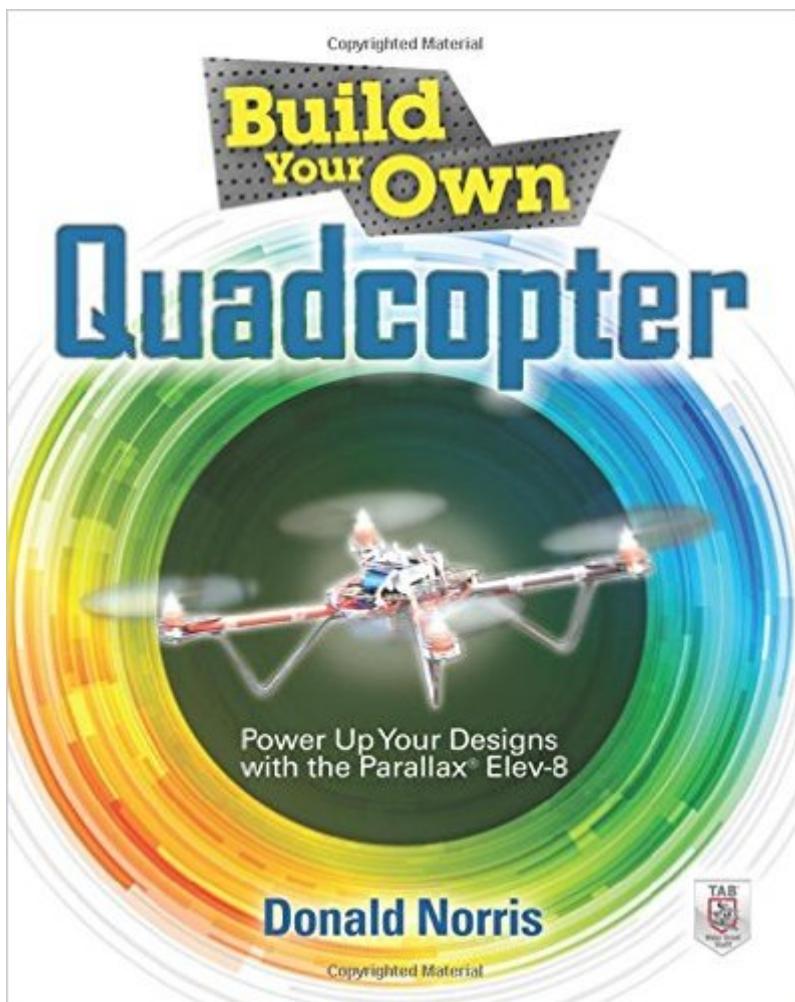


The book was found

Build Your Own Quadcopter: Power Up Your Designs With The Parallax Elev-8



Synopsis

Build a custom multirotor aircraft! Build and customize radio-controlled quadcopters that take off, land, hover, and soar. *Build Your Own Quadcopter: Power Up Your Designs with the Parallax Elev-8* features step-by-step assembly plans and experiments that will have you launching fully functioning quadcopters in no time. Discover how to connect Elev-8 components, program the microcontroller, use GPS, and safely fly your quadcopter. This fun, do-it-yourself guide fuels your creativity with ideas for radical enhancements, including return-to-home functionality, formation flying, and even artificial intelligence! Understand the principles that govern how quadcopters fly. Explore the parts included in your Parallax Elev-8 kit. Follow illustrated instructions and assemble a basic 'copter. Connect the Parallax chip to a PC and write Spin and C programs. Build radio-controlled systems that minimize interference. Add GPS and track your aircraft through Google Earth. Beam flight information to smartphones with WiFi and XBee technology. Mount cameras and stream real-time video back to the ground. Train to safely operate a quadcopter using flight simulation software.

Book Information

Series: *Build Your Own* (Book 1)

Paperback: 368 pages

Publisher: McGraw-Hill Education TAB; 1 edition (May 14, 2014)

Language: English

ISBN-10: 0071822283

ISBN-13: 978-0071822282

Product Dimensions: 7.4 x 0.8 x 9.2 inches

Shipping Weight: 1.4 pounds (View shipping rates and policies)

Average Customer Review: 4.1 out of 5 stars See all reviews (14 customer reviews)

Best Sellers Rank: #740,620 in Books (See Top 100 in Books) #90 in Books > Computers & Technology > Hardware & DIY > Microprocessors & System Design > Microprocessor Design #225 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Circuits > Design #372 in Books > Computers & Technology > Computer Science > Robotics

Customer Reviews

I was surprised to see the two star review here, but I guess it is all about expectations. This book is the only one I've found that breaks down a VTOL UAV into its core components and drills down to bedrock on each one. This is currently my bible as I try to better understand how to manipulate and

optimize my machine for my intended purpose - capturing high quality cinematic footage. You can buy ARTF kits (almost ready to fly) and with a little soldering, a little programming to get the radio set up properly, and a lot of reading on countless discussion forums (to translate vague instructions not well translated into English) you can take to the air with reasonable competence. That seems to be all the two-star reviewer would like to accomplish at this point and that's fine, but you are going to need this book soon enough! These things fly great until they don't. Your idea of what you'd like to use your quadcopter for will change, and when it does, you can hunt for an overpriced RTF that's "close" to what you need, or you can tweak your craft on your own and get it exactly right. If the latter sounds more appealing to you, this book is for you. I'm not even building an Elev-8 quadcopter - but the topics and the clear language in this book are universal. It's rare to find someone with this level of passion and knowledge about a technical subject who can also make it this accessible. If nothing else, this book will expose you to questions you didn't even know to ask. I bought this elsewhere because of a gift card I was given, but I bought the tablet version. I think I will order a print edition here on as I expect to spend a lot of time in this book.

This book is a comprehensive and in depth look at every system and circuit needed to make a Elev-8 copter. I will admit it is not for people that are not somewhat familiar with engineering or technically inclined. I admit that I have a degree in engineering, but I knew nothing about RC planes and quadcopters. After reading this one book, I am comfortable talking about them with people that have built them and fly them. I will be ordering my Parallax copter next month...it looks like a new design is in the works :)

This is an outstanding book for what it is. As someone with a background in computer science, some basic electronic engineering knowledge, and a ham radio license I found the material to be very approachable and a useful introduction to the underlying function of modern RC technology. I do not have nor expect to have the parallax product referenced in the book, so I was able to move quickly through sections which were specific to that hardware. The book would have been just as good if it left the parallax portions out, and even better if it replaced them with some more hardware agnostic material addressing i2c, sbus, and other common technologies in use today. All in all, this book is the most technical book I have found on the topic and written in a way that someone new to RC but versed in adjacent field of knowledge could make great use of it. Well done to the author.

I completely misunderstood the purpose of this book. I thought it was how to physically BUILD a

quad not program it from scratch. I'm not saying it is not a good book to read if you are an aeronautical engineer with advanced programming skills, but it is not for ME. I have done programming my whole life but not this advanced. I will see if I can return it or wait until I advance my programming skills. I give it generously two stars because it was not adequately described.

The book is an excellent reference book for one looking for details at a grass roots level when building a unique quadcopter. There are numerous examples to help with understanding what the issues are for designing firmware, sizing motors, flight control considerations, etc. Very helpful for a newbie just getting into quad building. What it lacked was the latest standardized flight control PCB's like the Naze32, etc. It is oriented toward the DJI products that were current about 18 months an earlier ago. I recommend the book to any newbie and it would be helpful to sit down with a very experienced quad builder to help with some of the details if details are important. Somewhat like a new aspiring pilot would do with a CFI.

Great book! It is written by an Engineer so it probably goes a little deeper than most people want but the author explores some really cool options if the desire is there to mount a camera for FPV flying, GPS auto piloting, etc.

Very helpful book, loaded with good design information that will help building any quad-copter. I am using it as a design guide to build my own quad-copter.

[Download to continue reading...](#)

Build Your Own Quadcopter: Power Up Your Designs with the Parallax Elev-8 Getting Started with Drones: Build and Customize Your Own Quadcopter How to Plan, Contract, and Build Your Own Home, Fifth Edition: Green Edition (How to Plan, Contract & Build Your Own Home) An English Language Guide to the Syma X5C: 4 Channel 2.4G Remote Control Quadcopter Solar Power: Proven Lessons How to Build Your Own Affordable Solar Power System: (Energy Independence, Lower Bills & Off Grid Living) (Self Reliance, Solar Energy) Homesteading for Beginners: Self-sufficiency guide, Grow your own food, Repair your own home, Raising Livestock and Generating your own Energy (Homesteading, ... Power Training: For Combat, MMA, Boxing, Wrestling, Martial Arts, and Self-Defense: How to Develop Knockout Punching Power, Kicking Power, Grappling Power, and Ground Fighting Power Getting Started with the Parallax Propeller The End of Modernity: Nihilism and Hermeneutics in Postmodern Culture (Parallax: Re-visions of Culture and Society) Evolution of Synthetic Pathways: Parallax and Calibration Create Your Own

Operating System: Build, deploy, and test your very own operating systems for the Internet of Things and other devices How to Build a Computer: Learn How to Build Your Own Computer From Scratch. The Parts, Connecting Everything Together, Installation and more (PC, Windows, Gaming System, Media System, Linux) Start Your Own Corporation: Why the Rich Own Their Own Companies and Everyone Else Works for Them (Rich Dad Advisors) Build Your Own Telescope: Complete Plans for Five Telescopes You Can Build with Simple Hand Tools Homesteading for Beginners: How to Grow Your Own Food, Raise Livestock, Repair Your Home Yourself and Generate Your Own Power Build Your Own Small Wind Power System Ceramics Two Books In One: Projects to Practice and Inspire, Techniques to Adapt to Suit Your Own Designs Create Your Own Printable Scrapbook Papers: 135 Vintage Designs for use with Photoshop Elements Step By Step To Your Own Domain And Webhosting: Tips and tricks for registering your own domain name and connecting it with your webhosting provider (Step By Step Booklets Book 1) Solar PV Off-Grid Power: How to Build Solar PV Energy Systems for Stand Alone LED Lighting, Cameras, Electronics, Communication, and Remote Site Home Power Systems

[Dmca](#)