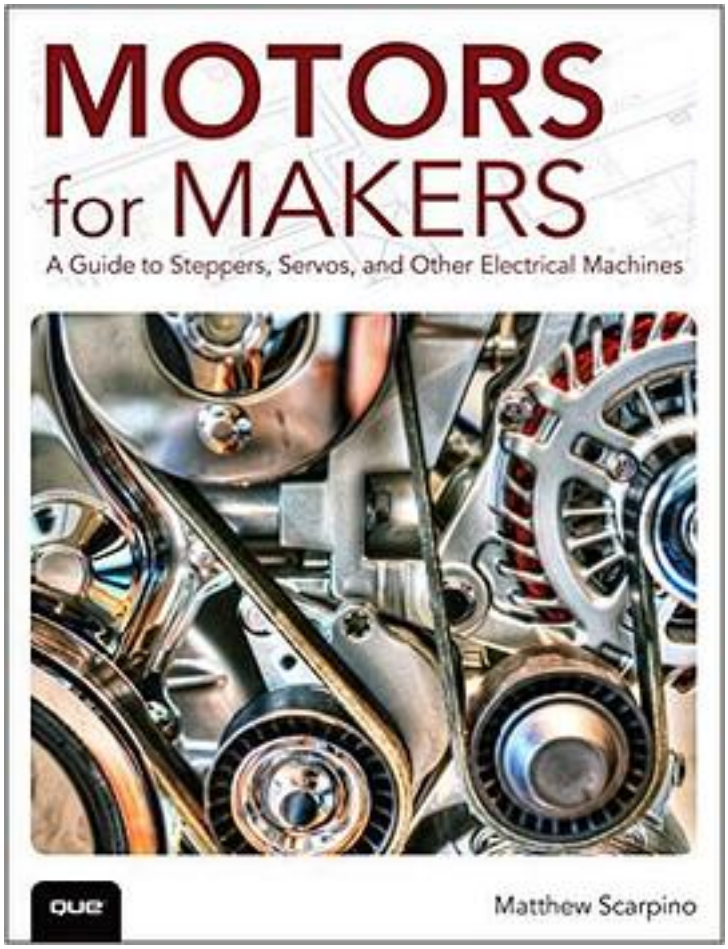
Motors for Makers



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The First Maker-Friendly Guide to Electric Motors!

Makers can do amazing things with motors. Yes, they’ re more complicated than

some other circuit elements, but with this book, you can completely master them. Once you do, incredible new projects become possible.

Unlike other books, Motors for Makers is 100% focused on what you can do. Not theory. Making.

First, Matthew Scarpino explains how electric motors work and what you need to know about each major type: stepper, servo, induction, and linear motors. Next, he presents detailed instructions and working code for interfacing with and controlling servomotors with Arduino Mega, Raspberry Pi, and BeagleBone Black. All source code and design files are available for you to download from motorsformakers.com.

From start to finish, you’ll learn through practical examples, crystal-clear explanations, and photos. If you’ve ever dreamed of what you could do with electric motors, stop dreaming...and start making!

Understand why electric motors are so versatile and how they work

Choose the right motor for any project

Build the circuits needed to control each type of motor

Program motor control with Arduino Mega, Raspberry Pi, or BeagleBone Black

Use gearmotors to get the right amount of torque

Use linear motors to improve speed and precision

Design a fully functional electronic speed control (ESC) circuit

Design your own quadcopter

Discover how electric motors work in modern electric vehicles--with a fascinating inside look at Tesla’s patents for motor design and control!

作者介绍:

Matthew Scarpino is an engineer with more than 12 years of experience designing hardware and software. He has a master’s degree in electrical engineering and is an Advanced Certified Interconnect Designer (CID+). He is the author of Designing Circuit Boards with EAGLE: Make High-Quality PCBS at Low Cost.

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