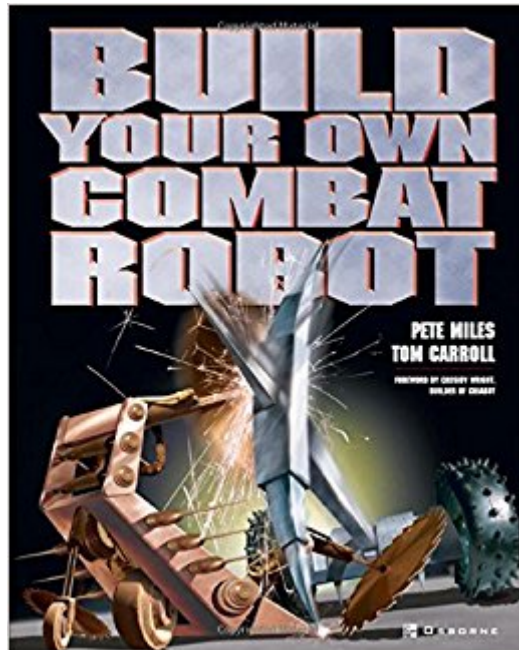




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# Build Your Own Combat Robot



## Synopsis

Explains the science and technology behind robots, and shows you what materials you need to build and program a robot for home, school, and competition.

## Book Information

Series: How to

Paperback: 416 pages

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Average Customer Review: 4.1 out of 5 stars 13 customer reviews

Best Sellers Rank: #378,415 in Books (See Top 100 in Books) #114 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Circuits > Design #223 in Books > Computers & Technology > Computer Science > Robotics #318 in Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Robotics & Automation

## Customer Reviews

Experience the excitement of building your own champion battling bot! Build a powerful and invincible robot--for full-blown competition or just for fun--using this authoritative robot resource. This team of experts gives you an inside look at the innovative new world of robotic combat, explaining the origins of the sport as well as all the elements that go into constructing a fighting robot. You'll learn technical basics from motors and wiring to locomotion, and read builders' true stories from the front lines of robot competition. Whether or not you're mechanically-minded, you'll find this book both entertaining and informative. Fully capturing the spirit of the sport, this detailed guide shows you how an imagination and a few bits of metal can start you on your way to constructing your own champion bot. Plan, design, and build your own battling robot Discover how electric motors work and choose the right type for your design Learn about both wheeled and walking robots Incorporate creative weapons and armor on your bot--learn the pros and cons of spinning hammers, jabbing spikes, buzzing saw blades, and more Minimize radio interference--so you can effectively control your bot to do what you want, when you want Understand what goes into building fully autonomous

robots Save money on parts and equipment by enlisting help from company sponsors Read true stories from combat roboteers and learn which types of constructions work and which don't

Pete Miles (Graham, WA) has worked in robotics for over 12 years. He holds a Master's degree in mechanical engineering and is currently working as Senior Research Engineer in advanced machining technologies for Ormond LLC in Kent, WA. Miles is active with the Seattle Robotics Society and was recently appointed to the SRS Board of Directors. Tom Carroll (Eastsound, WA) has been involved with robotics for over forty years. He built his first robot at age 14, and later worked as a robotics engineer for Rockwell International for nearly thirty years. He built the robots that were featured in the movies *Revenge of the Nerds* and *Buck Rodgers in the 25th Century*, and founded his own company, Universal Robot Systems, which focuses on personal robots to assist the elderly and disabled.

It is technical for the beginner. And, I was bummed that mine came with a blank white cover - it was a gift for my daughter who is a robotics nut. She loves the book, but it's nice to have a cool cover too. Yah, yah, don't judge a book... well, I'm taking one star off for the all-white cover.

This book is basically a big advertisement for combat roboting. Otherwise, the authors never seem to decide if they want to convey theory of mechanics or a rough overview of the pastime. For example, they include charts that look technical, like torque vs. rpm, but convey no useful information that can't be reasoned out with a little common sense. The book carefully details various battery properties. But, in the very next section the only thing it says about power transfer that it is necessary to make the wheels turn. They include a few useless formulas that can, again, be easily reasoned, but it doesn't mention anything about how to build or acquire a transmission. The controller sections are also poor. They include electronic schematics that, while not incorrect, are obsolete and overly simplified. Yet, in the same sections the book actually include programming (basic I think) for controller chips. Maybe the one-star rating was a little low, but I feel that this book was a brain-stormed first draft that mistakenly made it past the editor.

I highly recommend this book to any first time bot builder. The section on battery technology is a bit dated but still informative. Everything else in this book timeless information. A great book to reference back to from time to time. This is the book I used when I first got started in robot fighting in the RFL

I love it. I love it. Good introductory book for robotics beginners.

Good book

loved it just what i wanted delivered very quickly

my son checked this book out at the library and really liked it, so we got a copy here. Kinda disappointed, why does it have a blank white cover? it is a fun book though. Honestly, I haven't read it, but my 8 year old son really enjoyed reading it cover to cover.

This is one of the best how-to books I've seen. The authors are true experts in the subject, and it shows in their selection of material. I wish the engineers at Toshiba who designed my notebook computer had read the chapter on batteries. You get theory, practice, materials engineering, mechanics and robotics all presented in one neat package. This is one of those rare books that's perfect for the beginner as well as the expert. It's jammed full of information that would take hundreds of hours to gather from other sources, and most importantly, it's a painless way to shorten the learning curve to become a robot expert yourself.

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