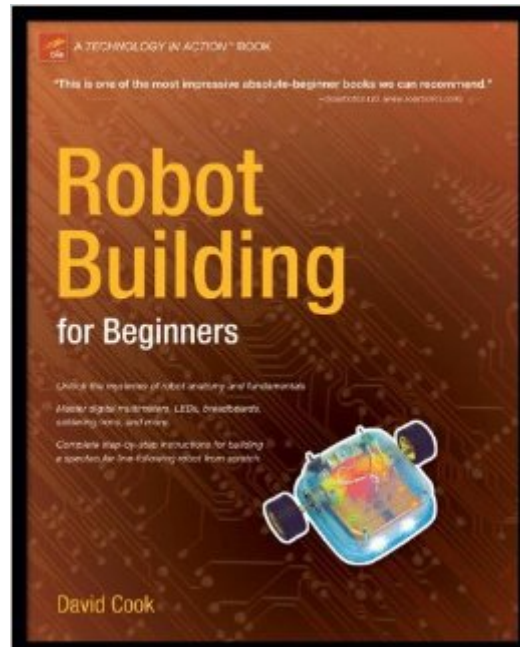# Robot Building For Beginners

Synopsis

Learning robotics by yourself isnt easy, but it helps when the encouragement comes from an expert whos spent years in the field. Not only does author David Cook assist you in understanding the component parts of robot development, but he also presents valuable techniques that prepare you to make new discoveries on your own. Cook begins with the anatomy of a homemade robot and gives you the best advice on how to proceed successfully. General sources for tools and parts are provided in a consolidated list, and specific parts are recommended throughout the book. Also, basic safety precautions and essential measuring and numbering systems are promoted throughout. Specific tools and parts covered include digital multimeters, motors, wheels, resistors, LEDs, photoresistors, transistors, chips, gears, nut drivers, batteries, and more. Robot Building for Beginners is an inspiring book that provides an essential base of practical knowledge for anyone getting started in amateur robotics.

Book Information

Series: Technology in Action Series

Paperback: 600 pages

Publisher: Apress; 1 edition (January 18, 2002)

Language: English

ISBN-10: 1893115445

ISBN-13: 978-1893115446

Product Dimensions: 7 x 1.3 x 9.2 inches

Shipping Weight: 2.7 pounds

Average Customer Review: 4.6 out of 5 stars See all reviews (108 customer reviews)

Best Sellers Rank: #665,998 in Books (See Top 100 in Books)   #204 in Books > Textbooks > Computer Science > Artificial Intelligence   #357 in Books > Computers & Technology > Computer Science > Robotics   #454 in Books > Computers & Technology > Computer Science > AI & Machine Learning > Intelligence & Semantics

Customer Reviews

I'm an Electrical Engineer at U.C. I bought this book so I could learn some "real world knowledge" about the physical world instead of just theory. I only asked for (and thankfully received) a multimeter, soldering iron, and a cordless dremel drill for Christmas. After reading this book, I now remember why I chose my major--making a robot is a blast!Being strong on the theory, I didn't learn anything in that regard. On the flip side, David Cook described the basics in a way that anyone

could understand. What I really wanted to learn was to be able to put my Christmas presents to use. He spent a chapter just on the multimeter! I loved it. Also, every part of the robot was described in detail. I now know the difference between choosing motors, batteries, transistors, comparitors, diodes, potentiometers, photo-resistors, ect.When I brought my first creation into my Electromagnetics class yesterday, I of course was asked to give a demonstration. From reading this book (to be honest a total of 3 times), I described everything about it in clear/consise detail. The only part I failed was receiving extra credit. Yes I did try :D.I couldn't imagine a better book for beginners. There is a website that describes the robot AND the few typos caught (nothing that mattered), ways he took this idea and added a couple more in a similar project, as well as detailing the post construction of robots he's made since then. Cook goes into detail for troubleshooting a potential screw up you may make (If 'X' is happening then you probably did 'Y'). Yes I made one too--thanks for asking.There is one part I didn't like about the project though--using an M&M's Mini tube to hold the motors. Being so close to Valentine's day, the only selection they had were PINK ones!

Robot Building for Beginners Reiki: The Ultimate Guide to Mastering Reiki for Beginners in 30 minutes or Less! (Reiki - Reiki Healing - Reiki For Beginners - Yoga for Beginners - Meditation ... Beginners - Kundalini For Beginners - Zen) Chicken Coop Building: Step by Step Guide for Beginners (Chicken Coop Building, Backyard Chickens, Chicken Coop Plans, Building Chicken Coops) Chicken Coop Building: The Complete Beginners Guide To Chicken Coop Building - Discover Amazing Plan To Building The Perfect Chicken Coop! (Chicken Coops ... Coop Plans, How To Build A Chicken Coop) Make a Raspberry Pi-Controlled Robot: Building a Rover with Python, Linux, Motors, and Sensors Blogging for Beginners: Learn How to Start and Maintain a Successful Blog the Simple Way - BLOGGING for BEGINNERS/BLOGGING: Blogging for Beginners (Computers ... Design, Blogging, WordPress for Beginners) Javascript: A Pocket Key to JavaScript for beginners (JavaScript Programming, JavaScript Beginners, JavaScript for web developers, JavaScript Beginners Guide, Java Programming for Beginners) Minecraft: Minecraft Building Guide: Ultimate Blueprint Walkthrough Handbook: Creative Guide to Building Houses, Structures, and Constructions with Building ... Minecraft Houses, Minecraft Handbook) Intarsia Woodworking for Beginners: Skill-Building Lessons for Creating Beautiful Wood Mosaics: 25 Skill-Building Projects Principles of Robot Motion: Theory, Algorithms, and Implementations (Intelligent Robotics and Autonomous Agents series) PiBot: Build Your Own Raspberry Pi Powered Robot 2.0 - Revised and Updated Robot Analysis and Control MSP430-based Robot Applications: A

Guide to Developing Embedded Systems AUTOMATIC SANITARY ROBOT WITH OPTIMIZED PERFORMANCE OF ARBITRARY TRACK SELECTION USING PIC MICROCONTROLLER Arduino Robot Bonanza Robot Programming: A Guide to Controlling Autonomous Robots Adaptive Sampling with Mobile WSN: Simultaneous Robot Localisation and Mapping of Paramagnetic Spatio-Temporal Fields (Iet Control Engineering Series) Build Your Own Combat Robot How to Build a Robot Army: Tips on Defending Planet Earth Against Alien Invaders, Ninjas, and Zombies PlaneaciÃ n y EjecuciÃ n de Trayectorias: En un robot Delta (Spanish Edition)