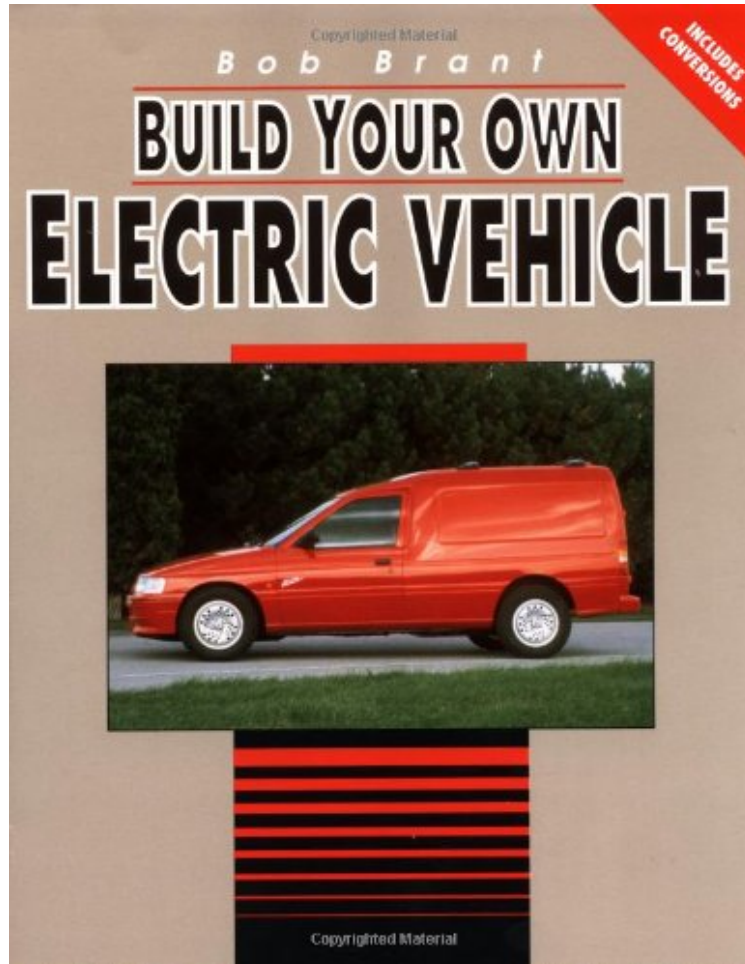


Build Your Own Electric Vehicle

Bob Brant

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#1840892 in Books McGraw-Hill/TAB Electronics 1993-09-01 Original language: English PDF # 1 9.10 x .67 x 7.30l, #File Name: 0830642315310 pages | File size: 25.Mb

Bob Brant : Build Your Own Electric Vehicle before purchasing it in order to gauge whether or not it would be worth my time, and all praised Build Your Own Electric Vehicle:

0 of 0 people found the following review helpful. worth buying it? YES. By Steven Leighton The book has 297 pages of which the first 80 pages are a general intro inc. electric vehicle history, 81 to 259 is an overview of the technical aspects in general that you will need to understand. Page 260, chapter 11 is entitled 'Electric vehicle conversion' ... Personally I would have put this first because this is an overview/introduction of what we really want to know and after reading this I understand the value of pages 81 to 259. I don't think you will be able to carry out a conversion after reading this book ... but it can get you started. The book was published first in 1994 so when it states "TODAY'S BEST CONTROLLER SOLUTION" ... well things have moved on. And although it is not yet plug and play to convert to EV you actually won't need the all the mathematics and physics of this book. Cost me \$2 used and in good condition ... worth buying it? YES. 1 of 1 people found the following review helpful. Beware of which edition is being

reviewedBy T HogleThe first edition (1995) of this book was great. I first read it in about 2007 but didn't buy it because the specific data was quite dated and I hoped a new edition would come out by the time I was ready to seriously consider doing a conversion. The second edition came out in 2009 and I jumped on it pre-publication. But the second edition is trash. I don't think Bob Brandt had anything to do with it other than to lend his name (the writing style of the new material was noticeably different from the original).Some of the changes from the first edition are just direct text substitutions which make the book glaringly disjointed. The new material is full of blatantly obvious grammar and syntax errors, which leads me to suspect the accuracy of the material overall. Most of the book was not updated at all, and it didn't really get into newer technologies. I didn't feel I could trust it as an up-to-date guide.I hope the third edition is better, but I haven't seen it. Just beware of which edition is being referred to when reading reviews (perhaps by noting the date of the review), and don't bother buying the second edition.7 of 7 people found the following review helpful. Limited usefulnessBy Richard ClayI am interested in a from scratch build, and I have undergraduate level knowledge of EM physics and EE.Very folksy style, lots of preaching. I think the author could assume that anyone reading "Build Your Own Electric Vehicle" does not need to be informed about the benefits of driving an EV. The history of the electric car, and speculation about oil availability, also held no interest to me.The meat of the book is essentially a record of two EV builds. Useful, but I do not feel that I got a book's worth of instruction.I found the information about safety cutoffs in the circuits helpful, but did not enjoy the folksy, "gosh golly you'll be fried like a turkey" style (not a quotation from the book).

Electric vehicles have many advantages over their gas-powered counterparts. They are ecologically sound, much cheaper to operate and require almost no routine maintenance. But they can also cost twice as much just to drive off the showroom floor. Ambitious do-it-yourselfers, however, can enjoy the clean-running convenience of an electric car for half the price of the most affordable Chevrolet or Toyota. This money-saving guide explains step by step how to build an inexpensive EV from a kit or from an existing internal combustion engine chassis. It begins with a look at the history of electric vehicles, from vintage turn-of-the-century Baker Electric automobiles to current international advances in EV technology, and a look ahead at the future of EV development. Then, Bob Brant embarks on a chapter-by-chapter building-block description of each EV component: motor, drive train, controllers, power supplies, chargers and chassis. Final chapters pull it all together with clear instructions for assembling an electric car from scratch or kit, with advice on where to find low-cost EV supplies and systems.

From BooklistThe advantages of electric vehicles (EVs) are well-known: nonpolluting operation, a renewable power source, safety, and low cost of operation. The disadvantages include limitations on speed, operating range, and convenience as well as the high cost of converting existing vehicles to electric operation; while acknowledging such other disadvantages as lack of effective heating, air conditioning, and power steering, EV advocate Brant says some of the best-known ones are myths. Speed, for instance, is related to body weight, and less weight means more speed. (Weight is, however, also a factor in safety: lighter weight often means less safety, especially in collisions, and Brant doesn't mention the collision factor.) Brant provides comprehensive instruction in converting a vehicle to electric power. It is not for the casual hobbyist, though, as is evident in such features as formulas for divining the potential top-end speeds of specific EVs--a precise system to answer questions of speed, but hardly the simple ballpark figure casual readers interested in exploring EVs' possibilities might want. Mike TribbyAbout the AuthorMcGraw-Hill authors represent the leading experts in their fields and are dedicated to improving the lives, careers, and interests of readers worldwide