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☐55% off at the bookstore! Discounted retail price now \$36.95 instead of \$44.95☐ (Color Edition) Are you a fan of electricity?Are

you looking for a DIY book to build your own lithium battery? Do you want to build a battery pack for your Electric Bike yourself? We have just the thing for you Your customers will never stop thanking you for offering them such a unique and complete DIY book. Today, we're going to discover everything there is to know about lithium batteries. You will learn how to design and build a battery pack for your electric bike with "DIY Batteries Lithium". Apart from that, this book will also teach you all about the operation of lithium batteries, their benefits and their importance. Don't let your best construction efforts be destroyed without even knowing it without the appropriate skills and knowledge! In addition, another section deals with safety guidelines that should not be taken lightly, as potential hazards have occurred in the past with people who have worked with lithium errors. "DIY Lithium Batteries" "The essential guide to master the operation of lithium batteries and how to build an electric bike battery pack" deals with: Composition and operation of lithium battery cells Recharging Batteries and How to Regenerate a Battery How to build a lithium battery charger Lithium Batteries: How to make them last longer How to build an electric bike battery pack Disposal of old lithium batteriesand much more! Moreover, the size of this book is such that you can take it with you all the time. What are you waiting for? Take advantage of this launch offer ☐☐Buy it now and let your customers become addicted to this amazing book. Are you looking to be part of the solar revolution? Are you just looking to save some power on your electricity bills? This book could be the answer you're looking for... As a person who has had to survive a hurricane or two, I can officially tell you that one of the best reasons to make your own Off the Grid solar power system is simply to have electricity when other people don't. Because you are the one that is monitoring and providing maintenance on your specific grid, this means that the likelihood of a random power outage is very unlikely, unless one of your solar panels is shattered by some unknown force. In a

giant power grid that connects wires that traverse tens to even hundreds of miles, practically anything can go wrong. A transformer could blow, a power line could be knocked down, one of the wires could snap and come loose etc. Any number of things can go wrong. When an electric company must find a problem, first they narrow the problem to specific sections of the grid, then they manually inspect all of the individual poles and lines in that section to find the problem. Locating and fixing the issue can take a long time depending on where it originates. On the other hand, because your solar grid is typically located on your property, if you notice that you are starting to lose power you can easily detect it through monitoring and then find the source of the problem within a relatively small area. In your system, all you have to do is simply look at the wires that are connecting to your battery packs and see which one might be causing the problem. Then, if the wires all check out, you just look at the solar panels themselves to see if any of them have broken or if something happened to them inside of their cases. Finally, you can then check the charge controller to see if it got hit with a surge of power or you can check one of the many surge protectors that you lay around the house so that you don't fry your devices. In other words, whenever you do experience a power outage you know the exact reason why you are experiencing it, and you are busy fixing it rather than having to wait for somebody else to fix it.

Presents detailed instructions for building a standard 6-string solid body model guitar and bass, using common tools and easy-to-order materials, and providing resources for obtaining electronic components and other hardware. Includes pictures and diagrams of each aspect of the construction: body shape, bridge types, neck and headstock, cutting and shaping, and assembly. The first choice of aspiring guitar makers for more than 30 years. For some, it is not enough to buy a guitar--the challenge of designing and hand-making a unique, customized instrument is the dream. Since 1986, these people have turned to one book:

Make Your Own Electric Guitar. Written in a clear, relaxed style, it covers every facet of guitar design and construction, as well as electronic theory and practice, and full woodworking and wiring techniques--all supported with plenty of photos and diagrams. Now in a revised and expanded third edition, Make Your Own Electric Guitar will enable any musician or enthusiast with basic woodworking skills to create a uniquely valuable instrument.

****This is the chapter slice "Your Travel Footprint Gr. 5-8" from the full lesson plan "Reducing Your Own Carbon Footprint"*****

Engage students in global climate change by personalizing their own carbon footprint. Our resource introduces students to the effects of global climate change and its human-related causes. Start with a detailed look at the greenhouse effect. Identify all the ways a kitchen uses energy. Break down the steps involved with farm to table and how each step adds to the carbon footprint. Calculate your travel footprint and learn ways to help reduce it. Understand that your carbon footprint doesn't lessen after throwing things out. Look at the bigger picture and calculate how your own carbon footprint fits with the community. Help reduce the carbon footprint by brainstorming ways to make environmentally-friendly rules part of the social contract. Written to Bloom's Taxonomy and STEAM initiatives, additional graphic organizers, carbon footprint calculator, crossword, word search, comprehension quiz and answer key are also included. **A STEP-BY-STEP GUIDE TO BUILDING A SMALL WIND POWER SYSTEM FROM THE GROUND UP** Written by renewable energy experts, this hands-on resource provides the technical information and easy-to-follow instructions you need to harness the wind and generate clean, safe, and reliable energy for on-site use. **Build Your Own Small Wind Power System** shows you how to install a grid-connected or off-grid residential-scale setup. Get tips for evaluating your site for wind power potential, obtaining permits, financing your project, selecting components, and assembling and maintaining your system. Pictures, diagrams, charts, and graphs

illustrate each step along the way. You'll also find out how you can help promote wind-friendly public policies locally. Save money and reduce your carbon footprint with help from this practical guide. **COVERAGE INCLUDES:** Challenges and impacts of small wind energy Electricity, energy, and wind science Determining if wind power is right for you Site assessment Financing small wind power Permits and zoning Wind turbine fundamentals Choosing the right wind turbine for the job Balance of system: batteries, inverters, and controllers Installation, maintenance, and troubleshooting Future developments in wind power Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better. Safe, efficient, code-compliant electrical installations are made simple with the latest publication of this widely popular resource. Like its highly successful previous editions, the National Electrical Code? 2011 LOOSE LEAF combines solid, thorough, research-based content with the tools you need to build an in-depth understanding of the most important topics. It provides the full text of the updated Code regulations alongside expert commentary from code specialists, offering code rationale, clarifications for new and updated rules, and practical, real-world advice on how to apply the code. And in a loose-leaf format, it's easy to customize your experience with the Code by adding job- and situation- specific materials. New to the 2011 edition are articles including first-time Article 399 on October, Overhead Conductors with over 600 volts, first-time Article 694 on Small Wind Electric Systems, first-time Article 840 on Premises Powered Broadband Communications Systems, and more. This winning combination has created a valuable reference for those in or entering careers in electrical design, installation, inspection, and safety. This all-color, fully illustrated practical book brings the unique Haynes 'Build your own' approach to a

new audience. Comprehensive step-by-step procedures show both novice and experienced guitarists how to build their very own unique, high-spec custom S-type instrument, tailor-made for their needs, for far less than the cost of buying a factory-built equivalent. Various body, neck and hardware options are covered to suit all requirements, along with advice on how to build a guitar to give the desired sound. Details of fine-tuning, along with set-up advice, helps to ensure that the finished guitar will be a joy to own and play. For some, it is not enough to buy a guitar--the challenge of designing and hand-making a unique, customized instrument is the dream. Since 1986, these people have turned to one book: *Make Your Own Electric Guitar*. Written in a clear, relaxed style, it covers every facet of guitar design and construction, as well as electronic theory and practice, and full woodworking and wiring techniques--all supported with plenty of photos and diagrams. Now in a revised and expanded edition, *Make Your Own Electric Guitar* will enable any musician or enthusiast with basic woodworking skills to create a uniquely valuable instrument. Aiming to take the mystery out of guitar making, this comprehensive book includes step-by-step colour photographs, diagrams and clear instructions for each procedure. Containing information on design, wood selection, hardware, tools and techniques, it allows you to select almost every element to create your own instrument.

A Step-by-Step Guide to Building an Electric Bicycle From the Ground Up Filled with do-it-yourself project, this hands-on manual gives you all the technical information and easy-to-follow instructions you need to assemble and customize an electric bike. *Build Your Own Electric Bicycle* gets you on the road on a reliable, economical, environmentally friendly ride. Inside, you'll find complete coverage of every component, including motors, controllers, batteries, and frames, as well as details on soldering, electrical wiring, safety, and other essential skills. The book covers commercially available electric bicycles and shows you how to make modifications and upgrades

for improved power, speed, range, and safety. Pictures, diagrams, and charts illustrate each step along the way. With this how-to guide on hand, you'll be riding your own tricked-out electric bike in no time!

BUILD YOUR OWN ELECTRIC BICYCLE COVERS:

Energy savings and environmental benefits
Electrical, battery, and road safety
Long-range, folding, and high-power bikes
Hub motor kits
Motors, controllers, and batteries
Electrical connections and wiring
Brakes
Troubleshooting, maintenance, and repair
Performance and safety modifications

Discusses the benefits of electric vehicles, describing each component and including step-by-step instructions for assembling the parts. A step-by-step guide to building an electric motorcycle from the ground up

Written by alternative fuel expert Carl Vogel, this hands-on guide gives you the latest technical information and easy-to-follow instructions for building a two-wheeled electric vehicle--from a streamlined scooter to a full-sized motorcycle.

Build Your Own Electric Motorcycle puts you in hog heaven when it comes to hitting the road on a reliable, economical, and environmentally friendly bike. Inside, you'll find complete details on every component, including motor, batteries, and frame. The book covers electric motorcycles currently on the market and explains how to convert an existing vehicle. Pictures, diagrams, charts, and graphs illustrate each step along the way. Whether you want to get around town on a sleek ride or cruise the super slab on a tricked-out chopper, this is the book for you.

Build Your Own Electric Motorcycle covers:

Energy savings and environmental benefits
Rake, trail, and fork angle
Frame and design
Batteries and chargers
DC and AC motor types
Motor controllers
Accessories and converters
Electrical system and wiring
Conversion process
Safety, maintenance, and troubleshooting

Master guitar maker J.P. Laplante shares the joy of guitar-making in this book. Here is an illustrated step-by-step guide to Building an Electric Archtop Guitar. Building an electric archtop guitar can be a pretty intimidating project but, it

becomes much less so if you're guided, step-by-step, through the building process. With almost 20 years of experience in custom guitar making, the author details the step-by-step making of an electric archtop guitar using commercially available laminated top and back plates. Laminated plates have been the standard used on the vast majority of electric archtops since the 50's, and definitely represent a cost and time effective solution, especially for those tackling a first archtop project. Complete and comprehensive, all aspects of the construction are covered, from the initial design stage to the very final setup. The text is supported by over 300 high-resolution colour photographs positioned throughout the 15 chapters of the book. These pictures were taken as the three guitars featured on the back and front cover of the book were being built. For more info/background, visit my website at www.laplanteguitars.com This short book provides the semi-technical, power-conscious homeowner a place to begin in the quest for home electric power. Both the essential principles and detailed information on how to build or maintain a home electric system off the utility grid are presented in an easy-going style. This book will help you to safeguard or develop your own home electricity supply: Step-by-step calculations lead you through your own electric system design, to determine sizing of solar panels, battery bank, solar charger, and inverter based on load estimation; Examples are given that can be used as templates for your electric system; Practical details on everything from wire size, outlet conventions, solar-panel junction box wiring, generator maintenance, and charger connections are well illustrated; Major factors are considered for wind, ethanol production, and streams as power sources; Basic electric theory is explained using basic mathematics; the use of formulas is made clear using examples; Electric system problems are described, with suggested remedies, including practical annoyances that are usually not covered elsewhere. In the past few years the market for electric guitar kits and parts has exploded. For every two

enthusiasts, there are four opinions on how properly to fill woodgrain. In this book, Will Kelly cuts through all that noise and shows how, with a little patience and some inexpensive tools, the average person can turn a modest investment into a gig-worthy instrument and perhaps even a lifelong hobby. Kelly presents guitar-building in a progressive fashion, beginning with a simple Stratocaster-style kit with a bolt-on neck and continuing on to a "relic'd" Telecaster-style build, two Gibson-style set-neck models, and a custom double-neck mash-up. Because each build is more involved than the previous, the reader builds on his or her skill set and acquires only the tools necessary for the reader's level of interest. Kelly shows how to apply finishes, choose and install hardware, wire electronics, execute the final assembly, and set up the finished guitar for proper action and intonation.

A revolution is ongoing in the field of small-scale energy solutions, which can enable lower impact on the environment, more robust supply and self-determination. Solar power and other forms of renewable energy sources, which you can implement to generate your own electricity, are growing quickly. Electromobility is transforming the car industry and transportation systems and can also play a role in your energy system. Electricity can be used much more efficiently than before, for example by using LED light, variable speed motor drives and efficient home appliances. Smart controls are available, sometimes with free open source software. All this opens up tremendous opportunities for energy independence, which is the focus of this book. The book introduces the reader to a number of renewable energy sources, to different options for storing electricity and to smart use of electricity, particularly in the context of small isolated systems. This is important because many renewable energy sources are weather- and season-dependent and usually require storage and smart control, in order to obtain a system that is completely independent of the electricity grid. In the book, overall system design is explained, including how to combine different sources in a hybrid system.

Different system sizes and architectures are also covered. A number of real cases are described, where homes, businesses and communities have achieved a high level of energy independence or are on their way to achieving it. This book will prove useful in university education in renewable energy at bachelor and master level, and also for companies and private individuals, who want to start or expand activities in the area of renewable energy.

DIY Solar Charger For Electric Car: Learn To Install Own Solar Panel Charger To Power Your Car Electric cars have been in existence for many years. However, it is only in the last few that they seem to have exploded in popularity. Much of this can be attributed to Tesla; which has become a household name and forced major vehicle manufacturers to catch up with their technology. The result is that electric cars have become cheaper, more efficient and can drive further. This makes them an attractive option for many people. The issue is the cost of running an electric car; whilst you will not have fuel costs you will see an increase in your electricity bill. This will be directly related to the number of miles you complete. One way to negate this cost and improve the attraction of these vehicles is to create your own DIY solar charger for electric cars. This is actually very simple and can be done as a stand-alone system or as part of a household electric supply; greatly reducing your bills. To find out how you can achieve this read the following book! It contains: An introduction to the power of the sun and its use in powering things for centuries. You will also learn a little about the development of the electric car. Which systems are available to create a solar charger for your car and how to choose the right one. Methods to homestead the fresh water resources like water wells Solar panels on your car; the reality and practicality of this today and in the future. Download your E book "DIY Solar Charger For Electric Car: Learn To Install Own Solar Panel Charger To Power Your Car" by scrolling up and clicking "Buy Now with 1-Click" button!

In the past few years the market for electric guitar kits and parts

has exploded. For every two enthusiasts, there are four opinions on how properly to fill woodgrain. In this book, Will Kelly cuts through all that noise and shows how, with a little patience and some inexpensive tools, the average person can turn a modest investment into a gig-worthy instrument and perhaps even a lifelong hobby. Kelly presents guitar-building in a progressive fashion, beginning with a simple Stratocaster-style kit with a bolt-on neck and continuing on to a "relic'd" Telecaster-style build, two Gibson-style set-neck models, and a custom double-neck mash-up. Because each build is more involved than the previous, the reader builds on his or her skill set and acquires only the tools necessary for the reader's level of interest. Kelly shows how to apply finishes, choose and install hardware, wire electronics, execute the final assembly, and set up the finished guitar for proper action and intonation. Discusses the benefits of electric vehicles and includes step-by-step instructions for converting a Ford Ranger pickup into an electric vehicle **BUILD, CONVERT, OR BUY A STATE-OF-THE-ART ELECTRIC VEHICLE** Thoroughly revised and expanded, *Build Your Own Electric Vehicle, Third Edition*, is your go-to guide for converting an internal combustion engine vehicle to electric or building an EV from the ground up. You'll also find out about the wide variety of EVs available for purchase and how they're being built. This new edition details all the latest breakthroughs, including AC propulsion and regenerative braking systems, intelligent controllers, batteries, and charging technologies. Filled with updated photos, this cutting-edge resource fully describes each component--motor, battery, controller, charger, and chassis--and provides illustrated, step-by-step instructions on how to assemble all the parts. Exclusive web content features current supplier and dealer lists. Custom-built for environmentalists, engineers, students, hobbyists, and mechanics, this hands-on guide puts you in the fast lane toward a cost-effective, reliable green machine. *Build Your Own Electric Vehicle, Third Edition*, covers: Environmental

impact and energy savings The best EV for you--purchase trade-offs, conversion trade-offs, and conversion costs Chassis and design Different types of electric motors and controllers Lithium EV batteries Chargers and electrical systems EV builds and conversions Licensing and insuring your EV Driving and maintenance List of manufacturers and dealers regularly updated on website A Step-by-Step Guide to Building a Plug-In Hybrid Electric Vehicle from the Ground Up Written by clean energy guru and electric vehicle expert Seth Leitman, this hands-on guide gives you the latest technical information and easy-to-follow instructions for building a plug-in hybrid electric vehicle (PHEV). "Written by Seth Leitman, longtime green vehicle/sustainability expert and author of "Build Your Own Electric Vehicle," this 275-page book provides an overview of the technology and the issues in doing a conversion, and it works well as a different way in to the open source material that can be found at <http://www.eaa-phev.org> or the easier-to-remember <http://www.priusplus.org>." -- CalCars.org Build Your Own Plug-In Hybrid Electric Vehicle puts you in the driver's seat when it comes to hitting the road in a reliable, economical, and environmentally friendly ride. Inside, you'll find complete details on the hybrid powertrain and all the required components, including the motor, battery, and chassis. The book covers the plug-in hybrids currently on the market as well as hybrid conversion companies, conversion kits, and related resources. Pictures, diagrams, charts, and graphs illustrate each step along the way. With this how-to guide on hand, you'll be behind the wheel of your own plug-in hybrid electric automobile in no time! Build Your Own Plug-In Hybrid Electric Vehicle covers: Energy savings and environmental benefits PHEV background Drivetrain components and design Chassis selection DC and AC motor types Batteries and chargers The conversion process Licensing and insurance Safety, maintenance, troubleshooting, and warranties Clubs and associations Additional resources BUILD, CONVERT,

OR BUY A STATE-OF-THE-ART ELECTRIC VEHICLE Thoroughly revised and expanded, *Build Your Own Electric Vehicle, Third Edition*, is your go-to guide for converting an internal combustion engine vehicle to electric or building an EV from the ground up. You'll also find out about the wide variety of EVs available for purchase and how they're being built. This new edition details all the latest breakthroughs, including AC propulsion and regenerative braking systems, intelligent controllers, batteries, and charging technologies. Filled with updated photos, this cutting-edge resource fully describes each component--motor, battery, controller, charger, and chassis--and provides illustrated, step-by-step instructions on how to assemble all the parts. Exclusive web content features current supplier and dealer lists. Custom-built for environmentalists, engineers, students, hobbyists, and mechanics, this hands-on guide puts you in the fast lane toward a cost-effective, reliable green machine. *Build Your Own Electric Vehicle, Third Edition*, covers: Environmental impact and energy savings The best EV for you--purchase trade-offs, conversion trade-offs, and conversion costs Chassis and design Different types of electric motors and controllers Lithium EV batteries Chargers and electrical systems EV builds and conversions Licensing and insuring your EV Driving and maintenance List of manufacturers and dealers regularly updated on website. *The Ultimate DIY Ebike Guide* contains everything you need in order to learn how to build your own electric bicycle. Whether you want to save money on gas, reduce your overall contribution to pollution or just find a faster, more fun way to get around the city, an electric bicycle can be the perfect option for you. And with today's technology, building your own ebike is a simple and easy process that nearly anyone can do themselves.

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