

## Hybrid Cars Guide

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### **Power Sources, Models, Sustainability, Infrastructure and the Market** Veloce Publishing

A comprehensive guided tour under the skin of the car. Diesel, petrol (gasoline), electric, hybrid and alternative propulsions are all dissected and explained in a reader-friendly manner, and as you move from the engine to the tailpipe, you'll discover what an exciting world there is within the car. Organized in intuitive chapters and backed with colorful illustrations and cutaways, this book describes the systems and parts that make your car move. Without emphasizing the 'boring' science bits, it discusses the practical application of various automotive terms, and explains why having more of one thing and less of another is beneficial in the real world. Whether you're just curious, or wish to become a better car owner, this book will start you on an exciting journey.

### **Build Your Own Plug-In Hybrid Electric Vehicle** McGraw Hill Professional

The latest developments in the field of hybrid electric vehicles Hybrid Electric Vehicles provides an introduction to hybrid vehicles, which include purely electric, hybrid electric, hybrid hydraulic, fuel cell vehicles, plug-in hybrid electric, and off-road hybrid vehicular systems. It focuses on the power and propulsion systems for these vehicles, including issues related to power and energy management. Other topics covered include hybrid vs. pure electric, HEV system architecture (including plug-in & charging control and hydraulic), off-road and other industrial utility vehicles, safety and EMC, storage technologies, vehicular power and energy management, diagnostics and prognostics, and electromechanical vibration issues. Hybrid Electric Vehicles, Second Edition is a comprehensively updated new edition with four new chapters covering recent advances in hybrid vehicle technology. New areas covered include battery modelling, charger design, and wireless charging. Substantial details have also been included on the architecture of hybrid excavators in the chapter related to special hybrid vehicles. Also included is a chapter providing an overview of hybrid vehicle technology, which offers a perspective on the current debate on sustainability and the environmental impact of hybrid and electric vehicle technology. Completely updated with new chapters Covers recent developments, breakthroughs, and technologies, including new drive topologies Explains HEV fundamentals and applications Offers a holistic perspective on vehicle electrification Hybrid Electric Vehicles: Principles and Applications with Practical Perspectives, Second Edition is a great resource for researchers and practitioners in the automotive industry, as well as for graduate students in automotive engineering.

### **Technologies, Modeling and Control - A Mechatronic Approach** John Wiley & Sons

### **The Complete Idiot's Guide to Hybrid and Alternative Fuel Vehicles** Penguin

### **The Complete Idiot's Guide to Hybrid and Alternative Fuel Vehicles** Createspace Independent Publishing Platform

Describes the systems and parts of gasoline-powered, diesel, electric, hybrid, and alternative propulsion automobiles.

### **50 Electric Cars for Sale with Price Today [2014-2015 Edition]** CreateSpace

The economy is hurting, gas prices are rising and we are suffering. With the high prices at our pumps today we can take measures to get the most out of our mileage. This Guide provides you with simple tips to better fuel economy.

### **Electric and Hybrid Vehicles** Mitchell Lane Publishers, Inc.

A thoroughly revised third edition of this widely praised, bestselling textbook

presents a comprehensive systems-level perspective of electric and hybrid vehicles with emphasis on technical aspects, mathematical relationships and basic design guidelines. The emerging technologies of electric vehicles require the dedication of current and future engineers, so the target audience for the book is the young professionals and students in engineering eager to learn about the area. The book is concise and clear, its mathematics are kept to a necessary minimum and it contains a well-balanced set of contents of the complex technology. Engineers of multiple disciplines can either get a broader overview or explore in depth a particular aspect of electric or hybrid vehicles. Additions in the third edition include simulation-based design analysis of electric and hybrid vehicles and their powertrain components, particularly that of traction inverters, electric machines and motor drives. The technology trends to incorporate wide bandgap power electronics and reduced rare-earth permanent magnet electric machines in the powertrain components have been highlighted. Charging stations are a critical component for the electric vehicle infrastructure, and hence, a chapter on vehicle interactions with the power grid has been added. Autonomous driving is another emerging technology, and a chapter is included describing the autonomous driving system architecture and the hardware and software needs for such systems. The platform has been set in this book for system-level simulations to develop models using various softwares used in academia and industry, such as MATLAB/Simulink, PLECS, PSIM, Motor-CAD and Altair Flux. Examples and simulation results are provided in this edition using these software tools. The third edition is a timely revision and contribution to the field of electric vehicles that has reached recently notable markets in a more and more environmentally sensitive world.

### **Electric and Hybrid Vehicles** Greenstream Publishing

Arguably one of the most important cars of this century so far, the Nissan LEAF is one of the most talked about cars in the world. It is the world's best selling electric car, a former World Car of the Year winner and one of the most environmentally friendly cars you can buy today. In this all-new guide, best selling technology author and LEAF owner, Michael Boxwell, explains what you need to know about owning and using a LEAF. He reveals why driving electric is not just good for the environment, but provides a terrific driving experience that is good for your wallet as well. Michael Boxwell has been involved in the electric vehicle industry since 2003 and has owned and driven electric cars since 2006. He is currently on his second Nissan LEAF.

### **Plug-In Electric Vehicles** MDPI

What's the big deal about hybrid cars? Why are so many celebrities driving them? Are these cars really better than gasoline-powered cars? You can learn how hybrid cars work and explore new inventions in the automotive industry. Discover vehicles powered by hydrogen and cars that run on sunshine. Learn how to reduce your own carbon footprint and help your family save gasoline. It's all possible when you explore the world of hybrid cars.

### **Hybrid Vehicles** CRC Press

Passionate about sustainable development? Introducing the world's first guide to electric cars! In the first edition of what promises to be the new bestseller in the world of cars, our authors explain the latest on electric vehicles. Speaking to amateurs and more seasoned enthusiasts alike, our two experts answer all your

questions: how do you recharge and service an electric vehicle? Are electric cars built for North American winters? Can you even drive on electricity every day of the week? Do you really save money when you go electric? Do electric vehicles have the speed you need? Would a hydrogen car be a wiser choice? Are the batteries in electric cars harmful to the environment--are they dangerous like the oil companies say? Does the government chip in when you buy an electric vehicle? Jacques Duval and Daniel Breton have tested over 70 different models that are on the market now or will be in a matter of months. They get down to the nitty-gritty with in-depth commentary from page one. Learn all there is to know about tech features, pricing, energy consumption stats, greenhouse gas emissions and pollutants. Just fifteen years ago, electric cars were a novelty--now, they're becoming increasingly central to the automobile industry. Soon, the entire world will turn to this eco-friendly mode of transportation!

**The Father of the Hybrid Car** John Wiley & Sons  
In *Racing Toward Zero*, the authors explore the issues inherent in developing sustainable transportation. They review the types of propulsion systems and vehicle options, discuss low-carbon fuels and alternative energy sources, and examine the role of regulation in curbing emissions. All technologies have an impact on the environment, from internal combustion engine vehicles to battery electric vehicles, fuel cell electric vehicles, and hybrids--there is no silver bullet. The battery electric vehicle may seem the obvious path to a sustainable, carbon-free transportation future, but it's not the only, nor necessarily the best, path forward. The vast majority of vehicles today use the internal combustion engine (ICE), and this is unlikely to change anytime soon. Improving the ICE and its fuels--entering a new ICE age--must be a main route on the road to zero emissions. How do we go green? The future requires a balanced approach to transportation. It's not a matter of choosing between combustion or electrification; it's combustion and electrification. As the authors say, "The future is eclectic." By harnessing the best qualities of both technologies, we will be in the best position to address our transportation future as quickly as possible  
**Design Fundamentals** McGraw Hill Professional

What is it really like to own and use an electric car? Are they slow and dull, or are they fun and exciting to drive? What about practicality and range? This book describes both the highs and lows of electric car ownership, turns a spotlight on the environmental claims and shows how an electric car can become a convenient and easy to use option.

**70 Vehicles Reviewed, Plus Everything You Need to Know About Going Electric** The Complete Idiot's Guide to Hybrid and Alternative Fuel Vehicles Who Else Wants To Discover The Insider Tips & Secret Strategies That Can Help You To Smoothly Buying Your First New Car Without Much Hassle & Avoid Getting Scam By Dishonest Car Dealer! If This Is The First Time You Are Planning To Buy A New Car, Then This Insider Tips & Strategies Are Just About To Show You Everything You Need To Know For Picking The Best Car To Meet Your Needs. Discover The 6 Most Important Steps To Follow When Buying A Car... The Steps That Will Accommodate Your Lifestyle and Your Budget...Are you someone who: \* Wants to buy a new car but doesn't know where to start? \* Has a car but needs to buy a new car in better shape? \* Someone who needs financing for a new car but doesn't know where to get the best deal? \* Someone looking for the best deal on car loans, or someone interested in learning how much they should spend each month on a car payment? \*

Someone curious to find out what to look for during a test drive? \* Someone interested in learning as much as they can about the car buying process before they approach a dealer? \* Someone clueless about car buying but in desperate need of a car that works well and fast? Here is just a sneak peak at what you'll learn in NEW CAR BUYING GUIDE: \* Learn where to look when searching for your new car... so you don't waste countless hours searching for cars in all the wrong places. \* Discover creative ways to finance your new car... even if you have bad credit or no credit, so you can buy the car you want and deserve when you need it. \* Find out what to look for when searching "under the hood" so you can avoid buying a car with serious mechanical flaws. \* Learn where to get car insurance and how to decide the best car insurance policy for you, so your car is covered properly and you can drive with peace of mind. \* Find out where you can find accurate and up-to-date information on new cars, so if you decide to buy a new car you know exactly where to look and what to look for. \* Learn how to decide whether buying a new or used car is the best choice for you, so you can buy a car that fits your budget and personal needs. \* Find out how to find the right car company to work with, so you can buy a quality car at a reasonable price. \* Discover how to calculate your monthly car insurance and what financial information you'll need to buy the car of your dreams. Plus... You'll Also Learn Things Like: \* Find out how to determine if you need a four-door or a two-door, so you buy a car compatible with your needs and preferences. \* Discover what safety features are must-have items when buying a car, whether you plan to buy a new or used car, so you can protect yourself and your family. \* Learn how to calculate the trunk space you'll need in the new car you buy, so you don't come up short when the time comes to pack for a long road trip. \* Learn more about hybrid cars so you can decide whether a hybrid car is the best choice for you. \* Discover the 5 tasks you MUST complete before buying a car... so you can avoid delays associated with the car buying process. AND MUCH, MUCH, MUCH MORE!!!

**Victor Wouk** Crabtree Publishing Company  
An 'electric vehicle' ('EV'), as well referenced to like an 'electric drive vehicle', utilizes one either further galvanic engines either grip engines for Ground propulsion. Three principal kinds of galvanic mediums subsist, these that are immediately controlled as of an outside power facility, these that are controlled by kept power initially as of an outside power origin, and these that are controlled by an on-board electronic source, such like an interior ignition mechanism (hybrid galvanic vehicles) either a hydrogen gas cell. There has never been a Electric Vehicles Guide like this. It contains 195 answers, much more than you can imagine; comprehensive answers and extensive details and references, with insights that have never before been offered in print. Get the information you need--fast! This all-embracing guide offers a thorough view of key knowledge and detailed insight. This Guide introduces what you want to know about Electric Vehicles. A quick look inside of some of the subjects covered: Plug-in electric vehicle - Asia, Hybrid cars - Plug-in hybrid electric vehicle (PHEV), Netherlands Transport, Fuel-cell vehicle - Well-to-Wheels analysis, Range anxiety - Responses to range anxiety, Plug-in electric vehicle - Availability of recharging infrastructure, Plug In America, Battery electric vehicle - Motors, Hydrogen economy - Efficiency as an automotive fuel, Plug-in hybrid - Recharging outside home garages, Government incentives for plug-in electric vehicles - Estonia, 2009 United Nations Climate Change Conference - Technology Action Programs, Mitsubishi i MiEV - Japan, Plug-in electric vehicle - Production plug-in electric vehicles available, Electric vehicle - U.S. Army, Buddy (electric car) - Sales, Motor vehicle type approval - Electric vehicles, Jeremy Rifkin - Five pillars, History of the electric vehicle - 1990s: Revival of interest, Alternative energy - Making Alternative Energy Mainstream, and much more...  
*A Beginner's Guide* Lulu Press, Inc

This book explains what a hybrid car is and the science behind hybrid technology. The text discusses the need for hybrid cars and how they could change our world.

### **The Complete Car Guide for Buying and Maintenance** CreateSpace

**Electric and Hybrid Vehicles: Power Sources, Models, Sustainability, Infrastructure and the Market** reviews the performance, cost, safety, and sustainability of battery systems for hybrid electric vehicles (HEVs) and electric vehicles (EVs), including nickel-metal hydride batteries and Li-ion batteries. Throughout this book, especially in the first chapters, alternative vehicles with different power trains are compared in terms of lifetime cost, fuel consumption, and environmental impact. The emissions of greenhouse gases are particularly dealt with. The improvement of the battery, or fuel cell, performance and governmental incentives will play a fundamental role in determining how far and how substantial alternative vehicles will penetrate into the market. An adequate recharging infrastructure is of paramount importance for the diffusion of vehicles powered by batteries and fuel cells, as it may contribute to overcome the so-called range anxiety." Thus, proposed battery charging techniques are summarized and hydrogen refueling stations are described. The final chapter reviews the state of the art of the current models of hybrid and electric vehicles along with the powertrain solutions adopted by the major automakers. Contributions from the worlds leading industry and research experts Executive summaries of specific case studies Information on basic research and application approaches

### **Plug-in Electric Car Buyers Buying Guide** Independently Published

**Auto Repair For Dummies, 2nd Edition** (9781119543619) was previously published as **Auto Repair For Dummies, 2nd Edition** (9780764599026). While this version features a new Dummies cover and design, the content is the same as the prior release and should not be considered a new or updated product. The top-selling auto repair guide--400,000 copies sold--now extensively reorganized and updated Forty-eight percent of U.S. households perform at least some automobile maintenance on their own, with women now accounting for one third of this \$34 billion automotive do-it-yourself market. For new or would-be do-it-yourself mechanics, this illustrated how-to guide has long been a must and now it's even better. A complete reorganization now puts relevant repair and maintenance information directly after each automotive system overview, making it much easier to find hands-on fix-it instructions. Author Deanna Sclar has updated systems and repair information throughout, eliminating discussions of carburetors and adding coverage of hybrid and alternative fuel vehicles. She's also revised schedules for tune-ups and oil changes, included driving tips that can save on maintenance and repair costs, and added new advice on troubleshooting problems and determining when to call in a professional mechanic. For anyone who wants to save money on car repairs and maintenance, this book is the place to start. Deanna Sclar (Long Beach, CA), an acclaimed auto repair expert and consumer advocate, has contributed to the Los Angeles Times and has been interviewed on the Today show, NBC Nightly News, and other television programs.

### **Beginners Tricks to Hybrid Battery Plug-in Car Buyers Guide**

Electric vehicles today are available across all categories of the automotive spectrum, from small hatchbacks to full-size luxury vehicles. But is an EV the right car for you? And how do you know which one to buy? **Electric Vehicles: A Beginner's**

Guide will help you understand the true costs and unique benefits EVs offer. You will discover how an electric vehicle can fit into your lifestyle. Because this technology is relatively new, the goal of this book is to help you, the consumer, decide whether an electric vehicle is right for you. With **Electric Vehicles** as your guide, you'll gain a solid understanding of the different types of EVs, how and where to charge them, why you should buy an EV, and the exciting future trends in electric vehicles. Written by a lifelong "car guy," in an easy-to-understand format without confusing technical jargon, this book will provide you with confidence as you explore purchasing an electric vehicle. Whether you're just looking to save money, or looking to make more environmentally conscientious buying decisions, let **Electric Vehicles** answer all the questions you didn't even know to ask!

**Electric Cars** Brookings Institution Press  
This is the latest ultimate unbiased guide to choosing, owning and driving an electric car. Uncover the evidence about owning and driving electric cars that is not revealed in either the press or a car showroom. This book explains the features, advantages, benefits and limitations and is a brand-new edition for 2021 packed with 30 new and updated new car reviews and technology to educate and guide the reader.

**Hybrid & Electric Vehicles** Elsevier  
**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

**Plug-in Hybrid Electric Vehicle (PHEV)** Dr Yves EV  
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