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Motormouth Natural Resources Available Today and in the Future *Lauren Fix's Guide to Loving Your Car* **Electrochemical Energy Systems** *Autonomous Vehicles for Safer Driving* **Hydrogen, the Post-oil Fuel ?** *Techno-Societal 2020 Agile Energy Systems* Multi-Stage and Multi-Time Scale Feedback Control of Linear Systems with Applications to Fuel Cells *Advances in Hydrogen Production, Storage and Distribution* **Concept Car Year in Review Power Electronics in Renewable Energy Systems and Smart Grid** The Car Book 2012 Computerized Engine Controls *Fuel Cells* **Lemon-Aid New Cars and Trucks 2011** *Weapon Systems* **Fuel Cells Energy Systems Engineering: Evaluation and Implementation, Third Edition** *Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles* **Applications of Fuel Cells in Vehicles Car and Driver** *Advances in Renewable Energy and Electric Vehicles* **Lemon-Aid New Cars and Trucks 2010** *Lemon-Aid New Cars and Trucks 2012* **Marketing Management Forbes Bioreactors for Microbial Biomass and Energy Conversion Introduction to Modern Power Electronics** New Cars & Trucks Buyer's Guide *Edmunds New Cars & Trucks Buyer's Guide 2006 Annual* Application of IVE Software for the Indirect Estimation of Pollutant Emissions from Mobile Sources with Otto Cycle Engine **Men's Health** *Lemon-Aid New Cars and Trucks 2013* **Popular Science** *Bicycling* Runner's World **Bicycling** Daily Graphic **Fuel Cell Hybrid EVs**

Power Electronics in Renewable Energy Systems and Smart Grid May 17 2022 The comprehensive and authoritative guide to power electronics in renewable energy systems Power electronics plays a significant role in modern industrial automation and high- efficiency energy systems. With contributions from an international group of noted experts, Power Electronics in Renewable Energy Systems and Smart Grid: Technology and Applications offers a comprehensive review of the technology and applications of power electronics in renewable energy systems and smart grids. The authors cover information on a variety of energy systems including wind, solar, ocean, and geothermal energy systems as well as fuel cell systems and bulk energy storage systems. They also examine smart grid elements, modeling, simulation, control, and AI applications. The book's twelve chapters offer an application-oriented and tutorial viewpoint and also contain technology status review. In addition, the book contains illustrative examples of applications and discussions of future perspectives. This important resource: Includes descriptions of power semiconductor devices, two level and multilevel converters, HVDC systems, FACTS, and more Offers discussions on various energy systems such as wind, solar, ocean, and geothermal energy systems, and also fuel cell systems and bulk energy storage systems Explores smart grid elements, modeling, simulation, control, and AI applications Contains state-of-the-art technologies and future perspectives Provides the expertise of international authorities in the field Written for graduate students, professors in power electronics, and industry engineers, Power Electronics in Renewable Energy Systems and Smart Grid: Technology and Applications offers an up-to-date guide to technology and applications of a wide-range of power electronics in energy systems and smart grids.

Lemon-Aid New Cars and Trucks 2012 Apr 04 2021 Phil Edmonston, Canada's automotive "Dr. Phil," pulls no punches. He says there's never been a better time to buy a new car or truck, thanks to a stronger Canadian dollar and an auto industry offering reduced prices, more cash rebates, low financing rates, bargain leases, and free auto maintenance programs. In this all-new guide he says: Audis are beautiful to behold but hell to own (biodegradable transmissions, "rodent snack" wiring, and mind-boggling depreciationMany 2011-12 automobiles have "chin-to-chest head restraints, blinding dash reflections, and dash gauges that can't be seen in sunlight, not to mention painful wind-tunnel roar if the rear windows are opened while underwayEthanol and hybrid fuel-saving claims have more in common with Harry Potter than the Society of Automotive EngineersGM's 2012 Volt electric car is a mixture of hype and hypocrisy from the car company that "killed" its own electric car more than a decade agoYou can save $2,000 by cutting freight fees and "administrative" chargesDiesel annual urea fill-up scams cancost you $300, including an $80 "handling" charge for $25 worth of ureaLemon-Aid's 2011-12 Endangered Species List: the Chinese Volvo, the Indian Jaguar and Land Rover, the Mercedes-Benz Smart Car, Mitsubishi, and Suzuki

Bioreactors for Microbial Biomass and Energy Conversion Jan 01 2021 This book discusses recent trends and developments in the microbial conversion process, which serves as an important route for biofuel production, with particular attention to bioreactors. It combines microbial conversion with multiphase flow and mass transfer,

providing an alternative perspective for the understanding of microbial biomass and energy production process as well as enhancement strategy. This book is relevant to students and researchers who work in the fields of renewable energy, engineering and biotechnology. Policymakers, economists and industry engineers also benefit from this book, as it can be used as a resource for the implementation of renewable energy technologies.

Multi-Stage and Multi-Time Scale Feedback Control of Linear Systems with Applications to Fuel Cells Aug 20 2022 This book provides a comprehensive study of multi-stage and multi-time scale design of feedback controllers for linear dynamic systems. It examines different types of controllers as can be designed for different parts of the system (subsystems) using corresponding feedback gains obtained by performing calculations (design) only with subsystem (reduced-order) matrices.The advantages of the multi-stage/multi-time scale design are presented and conditions for implementation of these controllers are established. Complete derivations and corresponding design techniques are presented for two-stage/two-time-scale, three-stage/three-time scale, and four-stage/four-time-scale systems. The techniques developed have potential applications to a large number of real physical systems. The design techniques are demonstrated on examples of mathematical models of fuel cells, especially the proton exchange membrane fuel cell.

Energy Systems Engineering: Evaluation and Implementation, Third Edition Oct 10 2021 A definitive guide to energy systems engineering—thoroughly updated for the latest technologies This fully revised book features comprehensive coverage of all types of energy systems, from fossil fuels and nuclear energy to solar, wind, biofuels, and energy systems for transportation. Throughout, new and expanded examples and end-of-chapter problems help to provide a practical understanding of each topic. Written by a team of energy experts, Energy Systems Engineering Evaluation and Implementation, Third Edition, clearly explains how each technology works and discusses benefits and liabilities. You will get up-to-date information on global emission trends, the volatile price and supply of natural gas and oil, and the accelerated growth of alternative energy sources. Detailed methods to assess environmental impact, project scope, cost, energy consumption, and efficiency are provided. Offers a technology-neutral, portfolio approach to energy system options and policy tools Includes new and expanded discussions so small scale nuclear fusion, wind turbine designs for lower average wind speed, and electric vehicles Explains how to project future output from nonconventional oil and gas Covers waste-to-energy conversion and waste water energy recovery Features high-quality illustrations and tables

Men's Health Jul 27 2020 Men's Health magazine contains daily tips and articles on fitness, nutrition, relationships, sex, career and lifestyle.

Application of IVE Software for the Indirect Estimation of Pollutant Emissions from Mobile Sources with Otto Cycle Engine Aug 28 2020 Project Report from the year 2018 in the subject Engineering - Automotive Engineering, grade: 10/10, , language: English, abstract: This article deals with the application of the IVE software for the indirect estimation of pollutant emissions from mobile sources with Otto cycle engine and comparison of results with direct measurement in route in the Metropolitan District of Quito. For the indirect estimation, we proceeded to quantify time data, altitude and speed with a GPS, these values were adjusted with a data filtering program to generate the matrix file for the development of the IVE program to later enter vehicle technology data, atmospheric conditions, time and date of the test and thus obtain global polluting emissions. For the direct measurement three routes were developed: city cycle, road cycle, combined cycle in which On-Board measuring equipment was used, to collect pollutant emissions values in route, and an external tank to quantify the fuel consumption in each trip.

Motormouth Apr 28 2023 Buying a car is a personal choice that has become a more complex decision because of advances in technology, and reliability issues that are haunting some car makers. Many consumers look to Zack Spencer, the host of Driving Television, for straightforward, no-nonsense, expert advice. In Motormouth, you will find out which vehicles are the safest, most reliable, and best value for your hard-earned dollar. In an easy-to-understand format, you will get: Fuel economy ratings Pros and cons for performance, handling, comfort, and ease-of-use Standard safety features J.D. Power Initial Quality and Dependability scores Base warranty information Engine specifications Pricing for base models Reviews of option packages and trim levels Zack's Top Picks for each category Zack provides insider buying tips to help you, whether you are buying privately, off the internet, or making the rounds to different dealers. He also advises you on your decision to lease, purchase or finance. At your fingertips are strategies and lessons learned from people's adventures in car buying, some with happy endings and others not-so-happy. From a fuel-sipping family friendly hauler to a rubber-burning luxury sports car, you can rely on Motormouth 2011 edition for the information you need to make a wise purchase decision. Go prepared and don't get stuck with a lemon. Take Motormouth along for the ride.

Lemon-Aid New Cars and Trucks 2011 Jan 13 2022 As U.S. and Canadian automakers and dealers face bankruptcy and Toyota battles unprecedented quality-control problems, Lemon-Aid guides steer the confused and anxious buyer through the economic meltdown unlike any other car-and-truck books on the market. Phil Edmonston,

Canada’s automotive "Dr. Phil" for more than 40 years, pulls no punches. In this all-new guide he says: Chrysler’s days are numbered with the dubious help of Fiat. Electric cars and ethanol power are PR gimmicks. Diesel and natural gas are the future. Be wary of "zombie" vehicles: Jaguar, Land Rover, Saab, and Volvo. Mercedes-Benz – rich cars, poor quality. There’s only one Saturn you should buy. Toyota – enough apologies: "when you mess up, ’fess up."

Natural Resources Available Today and in the Future Mar 27 2023 This book focuses on providing an overview of all our available natural resources, considering the sustainability and potential for power generation of each. Energy efficiency prospects of each natural resource are examined in the context of society’s key energy needs- Heating/cooling, Electric Power, Transportation and Industrial Production. Geography, climate and demographics are all discussed as key vectors impacting the comparative opportunities for self-sustenance around the globe. The authors provide in-depth coverage of renewable energy upscale and energy efficiency improvements in industry and society within a historical context, including a keen look at the variable effectiveness of different policy tools that have been used to support the transition away from unsustainable resource use. Finally, suggestions for more sustainable futures are provided, from improved policy measures, to new technological horizons in areas from offshore wind and marine energy to biogas and energy storage.

The Car Book 2012 Apr 16 2022

Lauren Fix's Guide to Loving Your Car Feb 26 2023 A nationally recognized automotive expert with years of experience explains essential car maintenance, how to talk to a mechanic, safe driving under all road conditions, and more. Illustrated.

Hydrogen, the Post-oil Fuel ? Nov 23 2022 Hydrogen—is it the energy vector for the future, or on the contrary, limited for many more decades, possibly even until the end of the century, to its current applications in the field of chemistry and refining? Advocates of the hydrogen civilization and the skeptics, even the declared opponents, are deeply divided over this issue. For the first, following a technological revolution, hydrogen would play a universal role alongside electricity in transport, leading to radical elimination of CO2 emissions. For the second, hydrogen will remain restricted to its current applications due to the insoluble problems inherent in its generalized use, especially in transport.

Fuel Cell Hybrid EVs Dec 20 2019 With production and planning for new electric vehicles gaining momentum worldwide, this book – the fifth in a series of five volumes on this subject – provides engineers and researchers with perspectives on the most current and innovative developments regarding electric and hybrid-electric vehicle technology, design considerations, and components. This book features 14 SAE technical papers, published from 2008 through 2010, that look at innovative engineering approaches to meeting the major technological challenges associated with fuel cells. Topics covered include: Advances in powertrain systems for fuel cell vehicles Diagnostic design processes for developmental vehicles Application of two fuel cells in hybrid electric vehicles Research and design of a centrifugal compressor for fuel cell turbocharger The future of fuel cell hybrid EVs

Daily Graphic Jan 21 2020

Concept Car Year in Review Jun 18 2022 The concept and prototype cars that are shown at major industry events feature cutting-edge technologies that the automotive industry wishes to preview. Often these technologies make an appearance in future production models. Concept Car Year in Review: 2013 provides insight to the key engineering ideas that were introduced in concept and prototype cars during that year. This full-color book includes articles that were previously published and written by the award-winning editors of Automotive Engineering International about these concept cars. This book provides a preview of the technologies we could experience in our vehicles in the future. It gives the reader an inside glimpse of how new ideas for vehicles are formed and how they are implemented into the cars we drive. Published for enthusiasts who are interested in future car models and their technologies, as well as practicing automotive engineers who are interested in new engineering trends such as hybrid systems, powertrain designs, automotive design, lightweighting, and materials, and new engineers who want an overview of future trends, Concept Car in Review: 2013 also: • Provides one place where readers can find information on key engineering trends over one year. • Allows readers to easily find specific car models or read about all of them. • Includes interviews with engineering innovators who pioneer technologies in concept cars. • Features many large, full-color images and an attractive magazine format.

Advances in Hydrogen Production, Storage and Distribution Jul 19 2022 Advances in Hydrogen Production, Storage and Distribution reviews recent developments in this key component of the emerging "hydrogen economy," an energy infrastructure based on hydrogen. Since hydrogen can be produced without using fossil fuels, a move to such an economy has the potential to reduce greenhouse gas emissions and improve energy security. However, such a move also requires the advanced production, storage and usage techniques discussed in this book. Part one introduces the fundamentals of hydrogen production, storage, and distribution, including an overview of the development of the

necessary infrastructure, an analysis of the potential environmental benefits, and a review of some important hydrogen production technologies in conventional, bio-based, and nuclear power plants. Part two focuses on hydrogen production from renewable resources, and includes chapters outlining the production of hydrogen through water electrolysis, photocatalysis, and bioengineered algae. Finally, part three covers hydrogen production using inorganic membrane reactors, the storage of hydrogen, fuel cell technology, and the potential of hydrogen as a fuel for transportation. Advances in Hydrogen Production, Storage and Distribution provides a detailed overview of the components and challenges of a hydrogen economy. This book is an invaluable resource for research and development professionals in the energy industry, as well as academics with an interest in this important subject. Reviews developments and research in this dynamic area Discusses the challenges of creating an infrastructure to store and distribute hydrogen Reviews the production of hydrogen using electrolysis and photo-catalytic methods

New Cars & Trucks Buyer's Guide Oct 30 2020

Applications of Fuel Cells in Vehicles Aug 08 2021

Fuel Cells Feb 14 2022 "This book is a one of a kind, definitive reference source for technical students and researchers, government policymakers, and business leaders. It provides an overview of past and present initiatives to improve and commercialize fuel cell technologies. It provides context and analysis to help potential investors assess current fuel cell commercialization activities and future prospects. Most importantly, it gives top executive policymakers and company presidents with detailed policy recommendations as to what should be done to successfully commercialize fuel cell technologies."--pub. desc.

Autonomous Vehicles for Safer Driving Dec 24 2022 Self-driving cars are no longer in the realm of science fiction, thanks to the integration of numerous automotive technologies that have matured over many years. Technologies such as adaptive cruise control, forward collision warning, lane departure warning, and V2V/V2I communications are being merged into one complex system. The papers in this compendium were carefully selected to bring the reader up to date on successful demonstrations of autonomous vehicles, ongoing projects, and what the future may hold for this technology. It is divided into three sections: overview, major design and test collaborations, and a sampling of autonomous vehicle research projects. The comprehensive overview paper covers the current state of autonomous vehicle research and development as well as obstacles to overcome and a possible roadmap for major new technology developments and collaborative relationships. The section on major design and test collaborations covers Sartre, DARPA contests, and the USDOT and the Crash Avoidance Metrics Partnership-Vehicle Safety Communications (CAMP-VSC2) Consortium. The final section presents seven SAE papers on significant recent and ongoing research by individual companies on a variety of approaches to autonomous vehicles. This book will be of interest to a wide range of readers: engineers at automakers and electronic component suppliers; software engineers; computer systems analysts and architects; academics and researchers within the electronics, computing, and automotive industries; legislators, managers, and other decision-makers in the government highway sector; traffic safety professionals; and insurance and legal practitioners.

Bicycling Apr 23 2020 Bicycling magazine features bikes, bike gear, equipment reviews, training plans, bike maintenance how tos, and more, for cyclists of all levels.

Marketing Management Mar 03 2021 Beginning of 21st century, there is various facet of marketing. The fundamental of marketing is utilized in every aspect. The marketing trends are making the marketers assimilate the innovations into marketing realities. The definitive impact is seen in the market place. Today companies are using the mode of application of innovations in product solution for the customer problems. Marketing is changed a lot from 1960’s. The fundamental topics such as segmentation, targeting, positioning still used by companies though there are new contemporary trends in marketing. Service market has grown significantly in this liberalized economy. Customers look for experiences while consuming. Customer lifestyle has changed substantially. New Indian customers graduating for nuclear family values, owning number of brands, having shopping experiences in retail outlet, flying in Airline, watching movies in multiplexes, food in good restaurant, pleasant stay in good hotel and health checkup in healthcare centers are becoming ices, properties, persons, places, events, information, ideas or organization is of interest to everyone. Customer feedback is implemented by the companies. Even the companies are tracking how many customers are clicking on what in webpage, and how many advertisements they are seeing. It makes marketers plan their market offerings. India's image now that it is able to provide services for the products augurs well for the country. Every chapter in this book explains in detail about fundamentals, challenges and contemporary issues. This book represents relevant topics for insightful marketing for the new century.

Advances in Renewable Energy and Electric Vehicles Jun 06 2021 This book presents select proceedings of the International Conference on Advances in Renewable Energy and Electric Vehicles (AREEV 2020), and examines related emerging trends, feasible solutions to shape and enable the development of mankind. The topics covered include renewable energy sources, electric vehicles, energy storage systems, power system protection & security, smart grid and wide band-gap semiconductor technologies. The book

also discusses applications of signal processing, artificial neural networks, optimal and robust control systems, and modeling and simulation of power electronic converters. The book will be a valuable reference for beginners, researchers, and professionals interested in power systems, renewable energy, and electric vehicles.

Agile Energy Systems Sep 21 2022 Agile Energy Systems: Global Distributed On-Site and Central Grid Power, Second Edition, offers new solutions to the structure of electricity provision made possible by new energy technologies. The book begins by showing how five precipitating forces led to the deregulation debacle in California, including major technological changes and commercialization, regulatory needs mismatched to societal adjustments, inadequate and flawed economic models, a lack of vision, goals, and planning that lead to energy failures, and questionable finance and lack of economic development. The second half of the book examines the civic market paradigm for new economic models and how to plan for complexity using California as an example of how the problem of centralized power systems can be seen in the worst drought that California has ever seen. Offers new approaches to energy systems, providing the tools and plans to achieve these objectives Presents specific and actionable public policy and program tools Illustrates how lessons learned from California can be used to create an agile energy system for any country

Car and Driver Jul 07 2021

Forbes Feb 02 2021

Electrochemical Energy Systems Jan 25 2023 This book is for anyone interested in renewable energy for a sustainable future of mankind. Batteries, fuel cells, capacitors, electrolyzers and solar cells are explained at the molecular level and at the power plant level, in their historical development, in their economical and political impact, and social change. Cases from geophysics and astronomy show that electrochemistry is not confined to the small scale. Examples are shown and exercised.

Computerized Engine Controls Mar 15 2022 Providing thorough coverage of both fundamental electrical concepts and current automotive electronic systems, COMPUTERIZED ENGINE CONTROLS, Eleventh Edition, equips readers with the essential knowledge they need to successfully diagnose and repair modern automotive systems. Reflecting the latest technological advances from the field, the Eleventh Edition offers updated and expanded coverage of diagnostic concepts, equipment, and approaches used by today's professionals. All photos and illustrations are now printed in full, vibrant color, making it easier for today's visual learners to engage with the material and connect chapter concepts to real-world applications. Drawing on abundant, firsthand industry experience, the author provides in-depth insights into cutting-edge topics such as hybrid and fuel cell vehicles, automotive multiplexing systems, and advanced driver assist systems. In addition, key concepts are reinforced with ASE-style end-of-chapter questions to help prepare readers for certification and career success. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Techno-Societal 2020 Oct 22 2022 This book, divided in two volumes, originates from Techno-Societal 2020: the 3rd International Conference on Advanced Technologies for Societal Applications, Maharashtra, India, that brings together faculty members of various engineering colleges to solve Indian regional relevant problems under the guidance of eminent researchers from various reputed organizations. The focus of this volume is on technologies that help develop and improve society, in particular on issues such as sensor and ICT based technologies for the betterment of people, Technologies for agriculture and healthcare, micro and nano technological applications. This conference aims to help innovators to share their best practices or products developed to solve specific local problems which in turn may help the other researchers to take inspiration to solve problems in their region. On the other hand, technologies proposed by expert researchers may find applications in different regions. This offers a multidisciplinary platform for researchers from a broad range of disciplines of Science, Engineering and Technology for reporting innovations at different levels.

Weapon Systems Dec 12 2021

Runner's World Mar 23 2020 Runner's World magazine aims to help runners achieve their personal health, fitness, and performance goals, and to inspire them with vivid, memorable storytelling.

Popular Science May 25 2020 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.

Bicycling Feb 20 2020 Bicycling magazine features bikes, bike gear, equipment reviews, training plans, bike maintenance how tos, and more, for cyclists of all levels.

Fuel Cells Nov 11 2021 This ready reference is unique in collating in one scientifically precise and comprehensive handbook the widespread data on what is feasible and realistic in modern fuel cell technology. Edited by one of the leading scientists in this exciting area, the short, uniformly written chapters provide economic data for cost considerations and a full overview of demonstration data, covering such topics as fuel cells for transportation, fuel provision, codes and standards. The result is highly reliable

facts and figures for engineers, researchers and decision makers working in the field of fuel cells.
Edmunds New Cars & Trucks Buyer's Guide 2006 Annual Sep 28 2020 For more than 39 years, millions of consumers have turned to Edmunds' buyer's guides for their shopping needs. This format makes it easy for consumers to get the advice and information they need to purchase their next new vehicle. Readers benefit from features such as: - Comprehensive vehicle reviews - Easy-to-use charts rate competitive vehicles in popular market segments - In-depth advice on buying and leasing - Editors' and consumers' ratings - High-quality photography - Editors' Most Wanted picks in 27 vehicle categories. In addition to these features, vehicle shoppers can benefit from the best that they've come to expect from the Edmunds name: - Crash test ratings from the National Highway Traffic Safety Administration and the Insurance Institute for Highway Safety - Warranty information Information on most fuel-efficient models and how to improve your fuel economy - Detailed explanation of how hybrid vehicles work - Previews of future vehicles not yet for sale.
Introduction to Modern Power Electronics Nov 30 2020 Provides comprehensive coverage of the basic principles and methods of electric power conversion and the latest developments in the field This book constitutes a comprehensive overview of the modern power electronics. Various semiconductor power switches are described, complementary components and systems are presented, and power electronic converters that process power for a variety of applications are explained in detail. This third edition updates all chapters, including new concepts in modern power electronics. New to this edition is extended coverage of matrix converters, multilevel inverters, and applications of the Z-source in cascaded power converters. The book is accompanied by a website hosting an instructor’s manual, a PowerPoint presentation, and a set of PSpice files for simulation of a variety of power electronic converters. Introduction to Modern Power Electronics, Third Edition: Discusses power conversion types: ac-to-dc, ac-to-ac, dc-to-dc, and dc-to-ac Reviews advanced control methods used in today’s power electronic converters Includes an extensive body of examples, exercises, computer assignments, and simulations Introduction to Modern Power Electronics, Third Edition is written for undergraduate and graduate engineering students interested in modern power electronics and renewable energy systems. The book can also serve as a reference tool for practicing electrical and industrial engineers.
Lemon-Aid New Cars and Trucks 2013 Jun 25 2020 Canada's automotive "Dr. Phil" says there's never been a better time to buy a new car or truck, thanks to a stronger Canadian dollar, a worldwide recession driving prices downward, and a more competitive Japanese auto industry that's still reeling from a series of natural disasters.
Lemon-Aid New Cars and Trucks 2010 May 05 2021 This compendium of everything thats new in cars and trucks is packed with feedback from Canadian drivers, insider tips, internal service bulletins, and confidential memos to help the consumer select whats safe, reliable, and fuel-frugal.
Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles Sep 09 2021 The light-duty vehicle fleet is expected to undergo substantial technological changes over the next several decades. New powertrain designs, alternative fuels, advanced materials and significant changes to the vehicle body are being driven by increasingly stringent fuel economy and greenhouse gas emission standards. By the end of the next decade, cars and light-duty trucks will be more fuel efficient, weigh less, emit less air pollutants, have more safety features, and will be more expensive to purchase relative to current vehicles. Though the gasoline-powered spark ignition engine will continue to be the dominant powertrain configuration even through 2030, such vehicles will be equipped with advanced technologies, materials, electronics and controls, and aerodynamics. And by 2030, the deployment of alternative methods to propel and fuel vehicles and alternative modes of transportation, including autonomous vehicles, will be well underway. What are these new technologies - how will they work, and will some technologies be more effective than others? Written to inform The United States Department of Transportation's National Highway Traffic Safety Administration (NHTSA) and Environmental Protection Agency (EPA) Corporate Average Fuel Economy (CAFE) and greenhouse gas (GHG) emission standards, this new report from the National Research Council is a technical evaluation of costs, benefits, and implementation issues of fuel reduction technologies for next-generation light-duty vehicles. Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles estimates the cost, potential efficiency improvements, and barriers to commercial deployment of technologies that might be employed from 2020 to 2030. This report describes these promising technologies and makes recommendations for their inclusion on the list of technologies applicable for the 2017-2025 CAFE standards.

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