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TU4VOJ - ANNA JAQUAN

Electrification is an evolving paradigm shift in the transportation industry toward more efficient, higher performance, safer, smarter, and more reliable vehicles. There is in fact a clear trend to move from internal combustion engines (ICEs) to more integrated electrified powertrains. Providing a detailed overview of this growing area, *Advanced Electric Drive Vehicles* begins with an introduction to the automotive industry, an explanation of the need for electrification, and a presentation of the fundamentals of conventional vehicles and ICEs. It then proceeds to address the major components of electrified vehicles—i.e., power electronic converters, electric machines, electric motor controllers, and energy storage systems. This comprehensive work: Covers more electric vehicles (MEVs), hybrid electric vehicles (HEVs), plug-in hybrid electric vehicles (PHEVs), range-extended electric vehicles (REEVs), and all-electric vehicles (EVs) including battery electric vehicles (BEVs) and fuel cell vehicles (FCVs) Describes the electrification technologies applied to nonpropulsion loads, such as power steering and air-conditioning systems Discusses hybrid battery/ultra-capacitor energy storage systems, as well as 48-V electrification and belt-driven starter generator systems Considers vehicle-to-grid (V2G) interface and electrical infrastructure issues, energy management, and optimization in advanced electric drive vehicles Contains numerous illustrations, practical examples, case studies, and challenging questions and problems throughout to ensure a solid understanding of key concepts and applications *Advanced Electric Drive Vehicles* makes an ideal textbook for senior-level undergraduate or graduate engineering courses and a user-friendly reference for researchers, engineers, managers, and other professionals interested in transportation electrification.

This book focuses on the systematic design of architectures, parameters and control of typical hybrid propulsion systems for wheeled and tracked vehicles based on a combination of theoretical research and engineering practice. Adopting a mechatronic system dynamics perspective, principles and methods from the fields of optimal control and system optimization are applied in order to analyze the hybrid propulsion configuration and controller design. Case investigations for typical hybrid propulsion systems of wheeled and tracked ground vehicles are also provided.

This book steers buyers through the the confusion and anxiety of new and used vehicle purchases unlike any other car-and-truck book on the market.

“Dr. Phil,” Canada’s best-known automotive expert for more than forty-five years, pulls no punches.

“Dr. Phil,” Canada’s best-known automotive expert, invites another driver to come aboard. After forty-six years and almost two million copies sold, Phil Edmonston is joined by a co-pilot for the Lemon-Aid Guide — George Iny, along with the editors of the Automobile Protection Association. The 2017 Lemon-Aid has everything: an encyclopedic lineup of the best and worst cars, trucks, and SUVs sold since 2007; secret warranties and tips on the “art of complaining” to help you get your money back; and new-car buying tips that will save you tons of money by revealing the inflated cost of fancy and frivolous add-ons. Lemon-Aid is an essential guide for careful buyers and long-time gear-heads who don't know as much as they think.

Neoliberalism is most commonly associated with free trade, the minimal state, and competitive individualism. But it is not simply national economies that are being neoliberalized – it is us. Inspired by Michel Foucault and other governmentality theorists, this volume’s contributors reveal how neoliberalism’s power to redefine “normal” is refashioning every facet of our lives, from consumer choices and how we approach the environment, to questions of national security and border control. By challenging neoliberal ideas and practices, this thought-provoking collection encourages us to think of the world as more than a marketplace and to open ourselves to the possibilities of resistance.

Get thousands of facts right at your fingertips with this essential resource *The World Almanac®* and *Book of Facts* is America's top-selling reference book of all time, with more than 82 million copies sold. Since 1868, this compendium of information has been the authoritative source for all your entertainment, reference, and learning needs. The 2016 edition of *The World Almanac®* reviews the events of 2015 and will be your go-to source for any questions on any topic in the upcoming year. Praised as a "treasure trove of political, economic, scientific and educational statistics and information" by *The Wall Street Journal*, *The World Almanac®* and *Book of Facts* will answer all of your trivia needs—from history and sports to geography, pop culture, and much more. Features include: • **The Year in Review:** *The World Almanac®* takes a look back at 2015 while providing all the information you'll need in 2016. • **2015—Top 10 News Topics:** The editors of *The World Almanac®* list the top stories that held their attention in 2015. • **2015—Year in Sports:** Hundreds of pages of trivia and statistics that are essential for any sports fan, featuring complete coverage of the first College Football Playoff, the Women's World Cup, 2015 World Series, and much more. • **2015—Year in Pictures:** Striking full-color images from around the world in 2015, covering news, entertainment, science, and sports. • **2015—Offbeat News Stories:** *The World Almanac®* editors found some of the strangest news stories of the year. • **World Almanac® Editors' Picks:** **Time Capsule:** *The World Almanac®* lists the items that most came to symbolize the year 2015, from news and sports to pop culture. • **U.S. Immigration: A Statistical Feature:** *The World Almanac®* covers the historical background, statistics, and legal issues surrounding immigration, giving factual context to one of the hot-button topics of the upcoming election cycle. • **World Almanac® Editors' Picks:** **Most Memorable Super Bowls:** On the eve of Super Bowl 50, the editors of *The World Almanac®* choose the most memorable "big games." • **New Employment Statistics:** Five years after the peak of the great recession, *The World Almanac®* takes a look at current and historic data on employment and unemployment, industries generating job growth, and the training and educational paths that lead to careers. • **2016 Election Guide:** With a historic number of contenders for the presidential nominations, *The World Almanac®* provides information that every primary- and general-election voter will need to make an informed decision in 2016, including information on state primaries, campaign fundraising, and the issues

voters care about most in 2016. • **The World at a Glance:** This annual feature of *The World Almanac®* provides a quick look at the surprising stats and curious facts that define the changing world. • and much more.

Successful interaction with products, tools and technologies depends on usable designs and accommodating the needs of potential users without requiring costly training. In this context, this book is concerned with emerging ergonomics in design concepts, theories and applications of human factors knowledge focusing on the discovery, design and understanding of human interaction and usability issues with products and systems for their improvement. This book will be of special value to a large variety of professionals, researchers and students in the broad field of human modeling and performance who are interested in feedback of devices’ interfaces (visual and haptic), user-centered design, and design for special populations, particularly the elderly. We hope this book is informative, but even more - that it is thought provoking. We hope it inspires, leading the reader to contemplate other questions, applications, and potential solutions in creating good designs for all.

This book addresses the essentials of an automotive audit which is required by all automotive suppliers world-wide. They are based on customer specific requirements, ISO standards, and Industry specifications. This book covers both the mandated documents and records that are necessary for compliance, with an extensive discussion on Layered Process Audits and distance auditing. The book addresses the six standards for certification in one volume. It explains “why” and “how” an effective audit should be carried out. It identifies the key indicators for a culture change with an audit, explains the “process audit” at length, discusses the rationale for Layered Process audits and summarizes all the mandatory documents and records for all standards and requirements. The book covers the issue of risk in auditing and emphasizes the role of a “checklist” in the preparation process. This book is for those that conduct audits, those that are interested in auditing, and those being audited. It specifically addresses automotive OEMs and their supplier base but is also of interest to anyone wanting information on auditing.

Lemon-Aid New and Used Cars and Trucks 1990-2015 steers the confused and anxious buyer through the purchase of new and used vehicles unlike any other car-and-truck book on the market. "Dr. Phil," Canada's best-known automotive expert for more than 42 years, pulls no punches.

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Accelerated testing (most types of laboratory testing, proving ground testing, intensive field/flight testing, any experimental research) is increasingly a key component for predicting of product's/process performance. Trends in Development Accelerated Testing for Automotive and Aerospace Engineering provides a completely updated analysis of the current status of accelerated testing, including the basic general directions of testing (methods and equipment) development, how one needs to study real world conditions for their accurate simulation and successful accelerated testing, describes in details the role of accurate simulation in the development of automotive and aerospace engineering, shows that failures are most often found in the interconnections, step-by-step instructions and examples. This is the only book presently available that considers in detail both the positive and negative trends in testing development for prediction quality, reliability, safety, durability, maintainability, supportability, profit, and decreasing life-cycle cost, recalls, complaints and other performance components of the product. The author presents new ideas and offers a unique strategic approach to obtaining solutions which were not possible using earlier. His methodology has been widely implemented, continue to be adopted throughout the world, and leads to advance society through product improvement that can reduce loss of life, injuries, financial losses, and product recalls. It also covers new ideas in development positive and cost- effective trends in testing development, especially accelerated reliability and durability testing (ART/ADT), which includes integration accurate simulation of field/flight influences, safety, human factors, and leads to successful prediction of product performance during pre-design, design, manufacturing, and usage for the product's service life. Engineers, researchers, teachers and post-graduate/advanced students who are involved in automotive and aerospace engineering will find this a useful reference on how to apply the accelerated testing method to solve practical problems in these areas. Explains the similarities and differences between accelerated testing technologies used in automotive, aerospace, and other engineering fields Provides a step-by-step guide for the accurate physical simulation of field conditions for test subjects Includes case studies of accelerated testing in automotive and aerospace engineering

Журнал для автомобилистов. Ежемесячно на страницах издания вы найдете новости зарубежного и российского авто-рынка, статьи об автомобильном образе жизни и мышления, материалы об удовольствии езды на больших скоростях, тест-драйвы новинок автопрома, рейтинг лучших автомобилей мира и интервью с персонами, которые не мыслят себя без гонок на своих автомобилях. А также ретрорубрика «Машина времени» и авторские материалы лучших корреспондентов «Коммерсанта».

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.

#1 New York Times Bestseller! Get thousands of facts at your fingertips with this essential resource: business, the arts and pop culture, science and technology, U.S. history and government, world geography, sports, and so much more. The World Almanac® is America's bestselling reference book of all time, with more than 83 million copies sold. For more than 150 years, this compendium of information has been the authoritative source for school, library, business, and home. The 2021 edition of The World Almanac reviews the biggest events of 2020 and will be your go-to source for questions on any topic in the upcoming year. Praised as a "treasure trove of political, economic, scientific and educational statistics and information" by The Wall Street Journal, The World Almanac and Book of Facts will answer all of your trivia needs effortlessly. Features include: 2020 Election Results: The World Almanac provides a comprehensive look at the entire 2020 election process, from the roller coaster of the early primaries to state and county presidential voting results and coverage of House, Senate, and gubernatorial races. 2020 Coronavirus Pandemic: A special section provides up-to-the-minute information about the world's largest public health crisis in at least a century, providing information on what scientists know about the virus so far—and what still needs to be learned—along with an update on vaccine progress, statistical data and graphics, and useful practical measures for readers. World Almanac Editors' Picks: Memorable Summer Olympic Moments: The World Almanac took a look back at past editions of the Olympic Summer Games to create a highlight reel of memorable moments to tide sports fans over until Tokyo in 2021. 2020—Top 10 News Topics: The editors of The World Almanac list the top stories that held the world's attention in 2020. 2020—Year in Sports: Hundreds of pages of trivia and statistics that are essential for any sports fan, featuring complete coverage of the sports world's response to the COVID-19 pandemic, a preview of the Olympic Games in Tokyo, and much more. 2020—Year in Pictures: Striking full-color images from around the world in 2020, covering news, entertainment, science, and sports. 2020—Offbeat News Stories: The World Almanac editors found some of the strangest news stories of the year. World Almanac Editors' Picks: Time Capsule: The World Almanac lists the items that most came to symbolize the year 2020, from news and sports to pop culture. The World at a Glance: This annual feature of The World Almanac provides a quick look at the surprising stats and curious facts that define the changing world. Statistical Spotlight: This annual feature highlights statistics relevant to the biggest stories of the year. These data provide context to give readers a fresh perspective on important issues. Other New Highlights: Newly available statistics on how the COVID-19 pandemic and widespread shutdowns have affected businesses, air quality, employment, education, families' living situations and access to food, and much more.

Governments of many countries consider the electrification of individual passenger transport as a suitable strategy to decrease oil dependency and reduce transport-related carbon dioxide (CO₂) and air pollutant emissions. However, battery-electric vehicles (BEVs) and plug-in hybrid-electric vehicles (PHEVs) have been more expensive than their conventional counterparts and suffer from relatively short electric driving ranges, which still hampers the market potential of these vehicles. Despite persisting shortfalls, mechanisms such as technological learning and economics of scale promise to improve the techno-economic performance of BEVs and PHEVs in the short- to mid-term. Here, the author seeks to obtain insight into the techno-economic prospects of BEVs and PHEVs by: (i) establishing experience curves and (ii) quantifying user costs and the costs of mitigating carbon dioxide and air pollutant emissions in a time-series analysis. The analysis captures the situation in Germany between 2010 and 2016.

Frederik Weiß entwickelt eine simulationsgestützte Methodik zur Identifikation optimaler BEV-, PHEV- und FCEV-Antriebsstrangkonfigurationen. Durch seine umfangreiche Analyse aller wesentlichen Einflüsse auf das Gesamtsystem Antriebsstrang kann der Autor die frühe Konzeptphase des Fahrzeugentwicklungsprozesses beschleunigen und zeitgleich dessen Ergebnisqualität verbessern. Die Simulation erfolgt mit eigens für diesen Anwendungsfall erstellten rechenzeiteffizienten Modellen und Berechnungsmethoden sowie einem multikriteriellen Optimierungsalgorithmus. Die Stärken der Methodik liegen in der hohen Variabilität, der Modularisierbarkeit sowie in der Berücksichtigung spezieller Eigenschaften elektrifizierter Antriebe, wie des Einflusses von Spannungslagen und des Deratingverhaltens einzelner Komponenten. Der Autor Frederik Weiß arbeitet in der Hauptabteilung Antriebs- und Energiesysteme der Konzernforschung eines großen Fahrzeugherstellers. Er beschäftigt sich dort mit der Simulation und Entwicklung von elektrifizierten Fahrzeugantriebssträngen und Hybridgetrieben.

Electric Vehicles for Smart Cities: Trends, Challenges, and Opportunities uniquely examines different approaches to electric vehicle deployment in the context of smart cities. It provides a holistic picture of electromobility within urban areas, offering an integrated approach to city transportation systems by considering the energy systems, latest vehicle technologies, and transport infrastructure. Electric Vehicles for Smart Cities addresses the interaction between grid infrastructure, vehicles, costs and benefits, and operational reliability within an integrated framework. The book examines the role electric vehicles play in the social and political aspects of climate change mitigation, as well as a renewable energy-based economy. It explains how electric vehicles and their system requirements work, including recharging techniques and infrastructures, and discusses alternative market deployment approaches. Includes case studies from cities around the world, including Amsterdam, London, Oslo, Barcelona, Los Angeles, New York, Silicon Valley, Los Angeles, Beijing, Shanghai, Tianjin, Tokyo, and Goto Islands Traces the developments, innovations, advantages, and disadvantages in the electric car industry Provides learning aids such as discussion questions and text boxes

Get thousands of fully searchable facts at your fingertips with this essential resource. The World Almanac® and Book of Facts is America's top-selling reference book of all time, with more than 82 million copies sold. For more than 150 years, this compendium of information has been the authoritative source for all your entertainment, reference, and learning needs. The 2019 edition of The World Almanac reviews the events of 2018 and will be your go-to source for questions on any topic in the upcoming year. Praised as a "treasure trove of political, economic, scientific and educational statistics and information" by The Wall Street Journal, The World Almanac and Book of Facts will answer all of your trivia needs on demand—from history and sports to geography, pop culture, and much more. Features include: The World at a Glance: This annual feature of The World Almanac provides a

quick look at the surprising stats and curious facts that define the changing world and includes a sneak peek at upcoming milestone celebrity birthdays in 2019. Statistical Spotlight: A popular new feature highlights statistics relevant to the biggest stories of the year. These data visualizations provide important context and new perspectives to give readers a fresh angle on important issues. This year's statistics will spotlight immigration, refugees, and asylum claims; the rising number and historic cost of natural disasters; and the nationwide opioid epidemic. 2018 Election Results: The World Almanac provides a comprehensive look at the entire 2018 election process, including complete Election Day results for House, Senate, and gubernatorial races. World Almanac Editors' Picks: Senior Moments: With leading athletes like Tom Brady and Serena Williams approaching middle age while still at the top of their game, The World Almanac editors look at the sports world's most memorable achievements by aging athletes. The Year in Review: The World Almanac takes a look back at 2018 while providing all the information you'll need in 2019. 2018—Top 10 News Topics: The editors of The World Almanac list the top stories that held the world's attention in 2018, covering the U.S. Supreme Court nomination process, historic negotiations with North Korea, a year of #MeToo developments, and much more. 2018—Year in Sports: Hundreds of pages of trivia and statistics that are essential for any sports fan, featuring complete coverage of the Winter Olympic Games in South Korea, World Cup men's soccer, the World Series, improved MLB player stats, and much more. 2018—Year in Pictures: Striking full-color images from around the world in 2018, covering news, entertainment, science, and sports. 2018—Offbeat News Stories: The World Almanac editors select some of the most unusual news stories of the year, from the parade commemorating a team's winless NFL season to the "bananas" lawsuit over a Halloween costume. World Almanac Editors' Picks: Time Capsule: The World Almanac lists the items that most came to symbolize the year 2018, from news and sports to pop culture. Other New Highlights: Brand-new statistics on crime rates for all major U.S. cities, U.S. trade and immigration policies, 2018 tax cuts, DACA recipients, mobile app and tech usage, student loan debt, income inequality, and much more.

Thinking about a knockout audio system for your car? Not sure what you need, want, or can afford? Car Audio For Dummies is a great place to find some answers! But wait — what if speakers that vibrate your floorboards don't turn you on? What if you're thinking more about hands-free phone access and a DVD player to entertain the kids? Surprise! Car Audio For Dummies can give you a hand there, too. Whether you want to feel as if your favorite band is performing right on top of your dashboard or you want to keep the soccer team entertained on the way to the tournament, this friendly guide can help. From planning your system and buying components to getting them installed and protecting your investment, you'll find plenty of wise advice. Get the scoop on: Figuring out what kind of equipment you need to do what you want Identifying good sound quality when you hear it Adding components to a factory system Choosing a video player, hands-free phone system, amplifiers, speakers, and more Finding a reliable installer (today's automotive electronics systems are so complex that you probably won't want to go it alone) Understanding warranties and returns Protecting and insuring your system Car Audio For Dummies is sort of like that knowledgeable friend you want to take along when you tackle a project like this. Sounds like a good idea, doesn't it?

The second edition of Sustainable Business prepares future business leaders to tackle the most crucial social and environmental issues of our time. This engaging textbook provides students with a comprehensive, balanced introduction to integrating sustainable business policies into all core business functions and processes. The text employs a qualitative-based learning process to help students understand how leadership, finance, accounting, risk management, marketing, supply chain management, and operations can be adapted to meet the sustainability goals of the 21st century. Looking at sustainable business from the managerial viewpoint, the fully-updated new edition explains how and why business is evolving due to increased consumer and regulatory pressure for sustainable performance. Business topics are first introduced in the same manner as traditional MBA programs, and then examined through the lens of sustainability. The text incorporates real-life examples of social and environmental leadership to demonstrate the efficacy of good sustainable business decisions, and illustrates the negative ramifications of outdated, purely economic-driven managerial decision-making. Influential concepts based on interdisciplinary research in sustainability are discussed in detail, and practical insights address how to turn policy into practice in the workplace.

The Zero Carbon Car examines the hundreds of ways in which car manufacturers are trying to reduce our carbon footprint, and the adaptation of the automotive industry to changing technology in a world where environmental issues are becoming ever more prevalent. The book's in-depth research into green car technology shows that manufacturers make concerted efforts, but sometimes also defeat the gains of their innovation. Topics covered include: What is meant by the terms 'global warming' and 'green', and how these can be defined; An account of the long history of green automotive technology; Alternative fuels, including diesel and hydrogen; Developments in environmentally friendly engine technology; Electric cars; Environmental issues in material usage and car body manufacture. A wide-ranging survey of the hundreds of ways in which car manufacturers are trying to reduce our carbon footprint. Written in an easy-to-understand manner, the book enables the reader to fully understand what is meant by 'global warming'. Examines alternative fuels, material usage and the motive power options available to us. Superbly illustrated with 350 colour photographs. Brian Long is a professional writer and motoring historian with over sixty books to his credit.

Die fünfte Auflage dieses Buches präsentiert, auf Basis der neusten Forschungs- und Entwicklungsergebnisse sowie von Prototyp- und Serienausführungen, zukunftsweisende Antriebssysteme für Automobile – von Elektroantrieben mit Batterien oder Brennstoffzellen bis hin zu Plug-In Hybridsystemen. In der neuen Auflage werden der weltweiten Energiegewinnung und -verwendung und den Auswirkungen von Emissionen jedweder Automobilantriebe eine besondere Betrachtung gewidmet. Die dargestellten Antriebskonzepte werden entsprechend der umgesetzten Prozesse und Funktionen analysiert und nach einheitlichen Kriterien wie spezifische Leistung, Drehmomentverlauf, spezifischer Kraftstoffverbrauch und Abgasemission bewertet. Die alternativen Kraftstoffe werden in Bezug auf Verfügbarkeit, Produktion, technischer Komplexität der Speicherung an Bord, Kosten, Sicherheit und Infrastruktur verglichen. Das Buch enthält aktualisierte Tabellen mit allen Elektro-/Hybrid- und Plug-In Fahrzeuge, die derzeit in der Welt produziert werden, und eine Übersicht über Ladetechniken und -leistungen. Die Recherchen und Analysen für die Aktualisierung und Ergänzung dieses Buches haben nochmal deutlich gezeigt, dass die Zukunft der Automobile nicht von einem universellen, einheitlichen elektrischen Vehikel, sondern viel mehr von einem vielfältigen, intelligenten Aufbau von Automobilmodulen und Antriebseinheiten bestehend aus Elektro- und Verbrennungsmotoren geprägt sein wird.

With production and planning for new electric vehicles gaining momentum worldwide, this book – the third 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 13 SAE technical papers, published from 2008 through 2010, that provide an overview of research on electric vehicle engines and powertrains. Topics include: Hybrid-electric vehicle transmissions and propulsion systems The development of a new 1.8-liter engine for hybrid vehicles Vehicle system control software validation The impact of hybrid-electric powertrains on chassis systems and vehicle dynamics High-torque density motors, and interior permanent magnet synchronous motors

A timely comprehensive reference consolidates the research and development of electric vehicle machines and drives for electric and hybrid propulsion • Focuses on electric vehicle machines and drives • Covers the major technologies in the area including fundamental concepts and applications • Emphasis the design criteria, performance analyses and application examples or potentials of various motor drives and machine systems • Accompanying website includes the simulation models and outcomes as supplementary material

Matt Keegan interviews artists and commissions writing to reassess the 1990s as the moment when the Democratic Party abandoned its New Deal values and swung to the right In the wake of the Trump election, artist Matt Keegan (born 1976) began investigating the Democratic Party's shifts over recent decades. In the late '80s, members of the Democratic Leadership Council successfully moved the party's platform to the right by including a pro-business, pro-military, interventionist agenda, and downplaying social infrastructure as a calculated break from its New Deal-era foundation. This shift led to Bill Clinton's consecutive terms. 1996 captures this pivotal time in American politics and society through the experience of artists who completed their undergraduate studies in that year and voted for Clinton, and others who were born in 1996 and voted for the first time in 2016. Essays focus on cultural and ideological shifts from that time, such as the 1994 Crime Bill, 1996 Immigration Act, the Telecommunications Act, the start of Fox News and beyond.

HYBRID, ELECTRIC AND FUEL-CELL VEHICLES, Second Edition, covers the cutting-edge technology and technology that are revolutionizing today's automotive industry. Author Jack Erjavec combines in-depth industry expertise with an engaging, reader-friendly style, providing extensive detail on new and upcoming electric vehicles, including hybrids in production today and the fuel cell vehicles of tomorrow. Expansive coverage ranges from basic theory related to vehicle construction, electricity, batteries, and motors, to the political and social impact of these high-profile vehicles. In addition to up-to-date, highly accurate technical information on vehicles available today—including service procedures and safe shop practices—the text provides an informed look into the future with material on vehicles currently under development. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Get thousands of facts at your fingertips with this essential resource. The World Almanac® and Book of Facts is America's best-selling reference book of all time, with more than 82 million copies sold. For more than 150 years, this compendium of information has been the authoritative source for all your entertainment, reference, and learning needs. The 2020 edition of The World Almanac reviews the biggest events of 2019 and will be your go-to source for questions on any topic in the upcoming year. Praised as a "treasure trove of political, economic, scientific and educational statistics and information" by The Wall Street Journal, The World Almanac and Book of Facts will answer all of your trivia needs effortlessly—from history and sports to geography, pop culture, and much more. Features include: Decade in Review: As the 'teens' decade closes, take a look at the highlights, low points, and everything-in-between of the past 10 years. From the introduction of Obamacare and iPads in 2010 to "Old Town Road" and the immigration policy debate in 2019, The World Almanac provides a recap of events and puts into perspective just how much has—and hasn't—changed in the last 10 years. 2020 Election Preview: The World Almanac provides a comprehensive look at the entire 2020 election process, including a calendar of state primaries and caucuses. Also includes 2019 election results for governors' seats and special congressional elections. World Almanac Editors' Picks: Never Say Die: With Tiger Woods achieving the seemingly impossible in 2019 with his 15th major title—his first Masters win in 14 years—the editors list their favorite major comeback moments from athletes across the sports universe. The World at a Glance: This annual feature of The World Almanac provides a quick look at the surprising stats and curious facts that define the changing world. Statistical Spotlight: A popular annual graphic feature highlights statistics relevant to the biggest news of the year. These data visualizations provide important context and new perspectives to give readers a fresh angle on key issues. The Year in Review: The World Almanac takes a look back at 2019 while providing all the information you'll need in 2020. 2019—Top 10 News Topics: The editors of The World Almanac list the top stories that held the world's attention in 2019. 2019—Year in Sports: Hundreds of pages of trivia and statistics that are essential for any sports fan, featuring coverage of the women's World Cup soccer tournament; a preview of the upcoming 2020 Olympic Games in Tokyo, Japan; the World Series, improved MLB player stats, and much more. 2019—Year in Pictures: Striking full-color images from around the world in 2019, covering news, entertainment, science, and sports. 2019—Offbeat News Stories: The World Almanac editors select some of the most unusual news stories of the year. World Almanac Editors' Picks: Time Capsule: The World Almanac lists the items that most came to symbolize the year 2019, from news and sports to pop culture. New Sections: Reorganized chapters on "Food and Agriculture," "Educational Statistics," and "Colleges and Universities" make it easier to find information about subjects like nutrition, student loans, a directory of colleges, and much more. Other New Highlights: New statistics on income tax reform, top-grossing movies, biggest YouTube channels, religious populations in the U.S. and worldwide, and much more.

Mathematics for Elementary School Teachers is designed to give you a profound understanding of the mathematical content that you are expected to know and be able to teach. The chapters integrate the National Council of Teachers of Mathematics (NCTM) Standards and Expectations and the new Common Core State Standards, as well as research literature. The five NCTM Process Standards of problem solving, reasoning and proof, communication, connections, and representation highlight ways that teachers present content, the ways that students learn content, and various ways that students can demonstrate procedural and conceptual understanding. The worked examples and homework questions provide prospective elementary school teachers with opportunities to develop mathematical knowledge, understanding, and skills that they can apply in their own classrooms effectively. The learning path begins with the Where Are We Going? Chapter Openers, worked Examples with Yellow Markers that indicate the Process Standards throughout the text, to the Concept Maps, to the Section Question Sets with their refreshers of Process Standards, to the Chapter Organizers with Learning Outcomes and a list of the corresponding Review Questions, and finally, conclude at the Chapter Tests with their overarching Learning Outcomes. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This book constitutes the refereed proceedings of four workshops co-located with SAFECOMP 2016, the 35th International Conference on Computer Safety, Reliability, and Security, held in Trondheim, Norway, in September 2016. The 30 revised full papers presented together with 4 short and 5 invited papers were carefully reviewed and selected from numerous submissions. This year's workshop are: ASSURE 2016 - Assurance Cases for Software-intensive Systems; DECSoS 2016 - EWICS/ERCIM/ARTEMIS Dependable Cyber-physical Systems and Systems-of-Systems Workshop; SASSUR 2016 - Next Generation of System Assurance Approaches for Safety-Critical Systems; and TIPS 2016 - Timing Performance in Safety Engineering.

Medium- and heavy-duty trucks, motor coaches, and transit buses - collectively, "medium- and heavy-duty vehicles", or MHDVs - are used in every sector of the economy. The fuel consumption and greenhouse gas emissions of MHDVs have become a focus of legislative and regulatory action in the past few years. This study is a follow-on to the National Research Council's 2010 report, Technologies and Approaches to Reducing the Fuel Consumption of Medium-and Heavy-Duty Vehicles. That report provided a series of findings and recommendations on the development of regulations for reducing fuel consumption of MHDVs. On September 15, 2011, NHTSA and EPA finalized joint Phase I rules to establish a comprehensive Heavy-Duty National Program to reduce greenhouse gas emissions and fuel consumption for on-road medium- and heavy-duty vehicles. As NHTSA and EPA began working on a second round of standards, the National Academies issued another report, Reducing the Fuel Consumption and Greenhouse Gas Emissions of Medium- and Heavy-Duty Vehicles, Phase Two: First Report, providing recommendations for the Phase II standards. This third and final report focuses on a possible third phase of regulations to be promulgated by these agencies in the next decade.

A 2021 USA Today Bestseller! Get thousands of facts at your fingertips with this essential resource: business, the arts and pop culture, science and technology, U.S. history and government, world geography, sports, and so much more. The World Almanac® is America's bestselling reference book of all time, with more than 83 million copies sold. For more than 150 years, this compendium of information has been the authoritative source for school, library, business, and home. The 2022 edition of The World Almanac reviews the biggest events of 2021 and will be your go-to source for questions on any topic in the upcoming year. Praised as a "treasure trove of political, economic, scientific and educational statistics and information" by The Wall Street Journal, The World Almanac and Book of Facts will answer all of your trivia needs effortlessly. Features include: Special Feature: Coronavirus Status Report: A special section provides up-to-the-minute information about the world's largest public health crisis in at least a century. Statistical data and graphics across dozens of chapters show how the pandemic continues to affect the economy, work, family life, education, and culture. Special Feature: 20 Years in Afghanistan: The World Almanac provides history, data, and other context for the end of America's longest war and the future of Afghanistan and its people. 2021—Top 10 News Topics: The editors of The World Almanac list the top stories that held the world's attention in 2021. 2021—Year in Sports: Hundreds of pages of trivia and statistics that are essential for any sports fan, featuring complete coverage of the Olympic Games in Tokyo and the sports world's ongoing adaptations to the coronavirus pandemic, and much more. 2021—Year in Pictures: Striking full-color images from around the world in 2021, covering news, entertainment, science, and sports. 2021—Offbeat News Stories: The World Almanac editors found some of the strangest news stories of the year. World Almanac Editors' Picks: Time Capsule: The World Almanac lists the items that most came to symbolize the year 2021, from news and sports to pop culture. World Almanac Editors' Picks: Memorable Recent Sports Scandals: From a trash-can banging, sign-stealing scandal to the doping of horses and humans, World Almanac editors select some of the sports world's biggest black marks from the last 20 years. The World at a Glance: This annual feature of The World Almanac provides a quick look at the surprising stats and curious facts that define the changing world. The Biden Administration: Complete coverage of the presidential transition in Washington, DC, including cabinet-level leadership and the filling of other key administration roles. Other New Highlights: First data available from the 2020 Census, congressional appropriation and redistricting, and much more.

Hybrid Powered Vehicles, 2nd Edition builds on the original edition's exploration of hybrid components, system engineering, design constraints, challenges, and opportunities of hybrid vehicles. Since the first edition was published in 2003, hybrid vehicles have seen major technical developments and have gained significant market share. This book provides the reader with a thorough yet accessible understanding of the latest hybrid technology developments, along with keen insight into the market forces shaping the technology and a look at what lies ahead. Author John German reviews the development history of hybrid vehicles and the current state of hybrid technology, including battery types and chemistries. He also highlights the cycles of fuel availability, fuel economy, and concern for environmental issues, and profiles government efforts to spur development of more efficient vehicles. Future enhancements, including more sophisticated hybrid control strategies and integrating additional electrical components to improve efficiency, are also featured. Cost reduction, being a major barrier to mass market adoption, is also discussed. Finally, future sales and market forecasts are offered, including the belief that hybrid sales will rapidly increase after approximately 2020 and will capture about 75% of the market by about 2030. Topics include: Transitional Technology or Ultimate Solution Design Components Design Constraints Plug-In Hybrid Design Hybrid System Optimization Customer Acceptance Future Development Future Conventional Hybrid and PHEV Markets

The Handbook of Lithium-Ion Battery Pack Design: Chemistry, Components, Types and Terminology offers to the reader a clear and concise explanation of how Li-ion batteries are designed from the perspective of a manager, sales person, product manager or entry level engineer who is not already an expert in Li-ion battery design. It will offer a layman's explanation of the history of vehicle electrification, what the various terminology means, and how to do some simple calculations that can be used in determining basic battery sizing, capacity, voltage and energy. By the end of this book the reader has a solid understanding of all of the terminology around Li-ion batteries and is able to do some simple battery calculations. The book is immensely useful to beginning and experienced engineer alike who are moving into the battery field. Li-ion batteries are one of the most unique systems in automobiles today in that they combine multiple engineering disciplines, yet most engineering programs focus on only a single engineering field. This book provides you with a reference to the history, terminology and design criteria needed to understand the Li-ion battery and to successfully lay out a new battery concept. Whether you are an electrical engineer, a mechanical engineer or a chemist this book helps you better appreciate the inter-relationships between the various battery engineering fields that are required to understand the battery as an Energy Storage System. Offers an easy explanation of battery terminology and enables better understanding of batteries, their components and the market place. Demonstrates simple battery scaling calculations in an easy to understand description of the formulas Describes clearly the various components of a Li-ion battery and their importance Explains the differences between various Li-ion cell types and chemistries and enables the determination which chem-

istry and cell type is appropriate for which application Outlines the differences between battery types, e.g., power vs energy battery Presents graphically different vehicle configurations: BEV, PHEV, HEV Includes brief history of vehicle electrification and its future

Are you ready to stop living paycheck to paycheck? Do you want to own your time? Rideshare companies like Uber and Lyft offer a new world of opportunities for millions of people. You've heard about it but maybe don't know where to start. Life gets busy, the bills stack up, and instruction manuals aren't provided. Just a few years ago, Mukon Ngoyi wore these same shoes. She was working three jobs and struggling to pay the rent. These days, she's one of the highest rated drivers around. Mukon earns \$90,000 a year and is known as the "Hustlin' Hummingbird" of the rideshare game. Mak-

ing it to the top wasn't easy, though. That's why Mukon wants to share the hard lessons she learned on the road. Her debut book, *Hustlin' Hummingbird*, is not only about her own rags-to-riches story. It is not just a tale of female strength and perseverance. The *Hustlin' Hummingbird* is also a guidebook. It was made to help people from all walks of life to follow her road to success. Mukon outlines everything an aspiring driver—or a curious rider—needs to know about the rideshare business. You'll learn how you can transform it from an occasional hobby into a moneymaking career that YOU control. Buckle your seatbelt. Start the ignition. *Hustlin' Hummingbird* is the book you've been waiting for.

Offers advice for prospective buyers of cars and trucks, reveals information on secret warranties and confidential service bulletins, and tells how to complain and get results.