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Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle. This book examines the fundamentals of vehicle dynamics, as well as the recent trends in the field, such as torque vectoring control, vehicle state estimation, and autonomous vehicles. It investigates the most pressing problems that vehicle dynamics engineers have been facing nowadays, and the challenges of autonomous vehicles in terms of perception, path planning, and analysis of the road environment. The book will serve as a useful tool for graduate students and researchers in vehicle dynamics and control. With reference to the Indian scene. This magazine is a specialist motoring magazine, we have always catered to the enthusiast in you and brought an unadulterated view of the world of motoring. Sharp, sassy, clean, wittier and edgier than ever before. Drive it home today! Focusing on reducing emissions and improving fuel economy, automotive manufacturers are developing electric vehicles (EV) to replace fuel and diesel vehicles starting in 2030 onwards. The EVs, with their green power supplies maximize environmental benefits with zero emissions thereby lowering air pollution levels. There is now an increased demand for stable electric storage systems (ESS) that are part of the design of new electric vehicles. This timely reference gives an overview of modern electrical power systems applied in the current generation of electric vehicles which require an ESS, and how these can be utilized for simultaneous power and data communication. The book starts with an introduction to the topic, before giving a summary of the green power trend for the electric vehicle market. The book then delves into the theoretical and analytical framework required to understand adaptive compensation of the magnetic inductive system (ACMIS), based on zero voltage switch (ZVS). The chapters demonstrate how these systems are used for transmitting electric power from a single-end inverter combined with a compensated network of parallel to parallel (P-P) type and an auto-tuning impedance of LC tank. The book also covers the experimental method for a multifunctional contactless power flow of the G2V mode and bidirectional outer communication and inner communication with giant magnetoresistance (GMR) effect for car parking guidance. The experiment shows how to analyze data transferring performance including the current trimming method and how to evaluate data transmission quality according to the relevant parameters. Overall the book serves to familiarize automotive engineers and industry professionals involved in the electric vehicle market with the issues that surround wireless power charging and data transfer systems for electric vehicles, and introduces them to more coherent designs. As the complexity of automotive vehicles increases this book presents operational and practical issues of automotive mechatronics. It is a comprehensive introduction to controlled automotive systems and provides detailed information of sensors for travel, angle, engine speed, vehicle speed, acceleration, pressure, temperature, flow, gas concentration etc. The measurement principles of the different sensor groups are explained and examples to show the measurement principles applied in different types. India is one of the emerging markets that pose a unique set of challenges to marketers. The importance of the context and the usefulness of concepts in the Indian context is the core proposition of the book. The diversity of a mix of factors such as cultural aspects, lifestyles, demographics and unbranded offerings make consumer behaviour a fascinating study. This book focuses on the behavioural principles of marketing and its application to branding in the Indian context. \* Consumer behaviour concepts associated with branding \* A combination of recent and traditional examples reflecting the application of behavioural concepts \* Touch of reality boxes to indicate context-based examples \* Caselets and cases drawn from real-life situations \* Research findings associated with the Indian context \* Topical issues in consumer behaviour like cultural aspects, digital marketing and experiential branding Reflecting the latest ASE Education Foundation standards, the fully updated Seventh Edition of TODAY'S TECHNICIAN: MANUAL TRANSMISSIONS & TRANSAXLES covers must-know topics including dual-clutch systems, limited-slip differential designs, and all-wheel drive systems, as well as essential safety concepts and major components of the transmission system and subsystems. New material throughout the text gives readers an up-to-date understanding of the latest automotive technology and key advances in the fast-changing automotive industry. The authors have revised sections on electronic controls of transmissions, transfer cases, and differentials to feature the latest reprogramming techniques today's technicians need to know. Covering both fundamental theory and practical job skills, the text includes a Classroom Manual reviewing every topic for Manual Drive Train and Axles, and a hands-on Shop Manual with full-color photo sequences and detailed job sheets, including service and repair tasks based on the latest MLR, AST, and MAST task lists. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. This is the only book that completely lists accurate technical data for all cars imported into the U.S. market from 1946-2000. With many imports approaching the antique status, this book will be a big seller across all generations of car enthusiasts. From the grandiose European carriages of the late Forties to the hot, little Asian imports of the Nineties, every car to grace American roadways from across the Atlantic and Pacific is carefully referenced in this book. &#x26;#x26;#x26;Foreign car devotees will appreciate the attention given to capturing precise data on Appearance and Equipment, Vehicle I.D. Numbers, Specification Charts, Engine Data, Chassis, Technical Data, Options and Historical Information. &#x26;#x26;#x26;Collectors, restorers and car buffs will love this key book from noted automotive authors, James Flammang and Mike Covello. For more than 38 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 that rate competitive vehicles in popular market segments - Expanded in-depth advice on buying and leasing - Editors' and consumers' ratings - High-quality photography - Editors' Most Wanted picks in 29 vehicle categories In addition to these features, vehicle shoppers can benefit from the best that they've come to expect from the Edmunds name: - In-depth articles on all-new vehicles - Crash test ratings from the National Highway Traffic Safety Administration and the Insurance Institute for Highway Safety - Warranty information - Previews of future vehicles not yet for sale Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle. In the rapid growth of the Chinese economy as the "world's factory and market", while this process has been supported by foreign companies, local Chinese companies have also emerged in the brief span of about 10 years to become major players. This is an extremely rare case in the world history and recently even among the BRICs and the NIEs. One cannot help but wonder what strategic positions foreign firms have adopted to cope with the extraordinary, fierce challenges they have had to face from local Chinese firms. A workshop discussed and illuminated the corporate activities and competitive and cooperative strategies of both Chinese and foreign firms from the perspective of Japanese, European, US and Asian firms. Automotive Automatic Transmission and Transaxles, published as part of the CDX Master Automotive Technician Series, provides students with an in-depth introduction to diagnosing, repairing, and rebuilding transmissions of all types. Utilizing a "strategy-based diagnostics" approach, this book helps students master technical trouble-shooting in order to address the problem correctly on the first attempt. -Outcome focused with clear objectives, assessments, and seamless coordination with task sheets -Introduces transmission design and operation, electronic controls, torque converters, gears and shafts, reaction and friction units, and manufacturer types -Equips students with tried-and-true techniques for use with complex shop problems -Combines the latest technology for computer-controlled transmissions with traditional skills for hydraulic transmissions -Filled with pictures and illustrations that aid comprehension, as well as real-world examples that put theory into practice -Offers instructors an intuitive, methodical course structure and helpful support tools With complete coverage of this specialized topic, this book prepares students for MAST certification and the full range of transmission problems they will encounter afterward as a technician. About CDX Master Automotive Technician Series Organized around the principles of outcome-based education, CDX offers a uniquely flexible and in-depth program which aligns learning and assessments into one cohesive and adaptable learning system. Used in conjunction with CDX MAST Online, CDX prepares students for professional success with media-rich integrated solutions. The CDX Automotive MAST Series will cover all eight areas of ASE certification. The evolution of the automotive transmission has changed rapidly in the last decade, partly due to the advantages of highly sophisticated electronic controls. This evolution has resulted in modern automatic transmissions that offer more control, stability, and convenience to the driver. Electronic Transmission Controls contains 68 technical papers from SAE and other international organizations written since 1995 on this rapidly growing area of automotive electronics. This book breaks down the topic into two sections. The section on Stepped Transmissions covers recent developments in regular and 4-wheel drive transmissions from major auto manufacturers including DaimlerChrysler, General Motors, Toyota, Honda, and Ford. Technology covered in this section includes: smooth shift control; automatic transmission efficiency; mechatronic systems; fuel saving technologies; shift control using information from vehicle navigation systems; and fuzzy logic control. The section on Continuously Variable Transmissions presents papers that demonstrate that CVTs offer better efficiency than conventional transmissions. Technologies covered in this section include: powertrain control; fuel consumption improvement; development of a 2-way clutch system; internal combustion engines with CVTs in passenger cars; control and shift strategies; and CVT application to hybrid powertrains. The book concludes with a chapter on the future of electronic transmissions in automobiles. The fast growth in world population and the associated energy requirements, the announced depletion of fossil fuel resources, the continuing rise in greenhouse gas (GHG) emissions with the induced climatic changes represent some of the major challenges to be taken up in the coming years and decades. Hybridization therefore typically represents a transition technology which can significantly improve the energy and environmental performance of current vehicles, without radically changing their use typologies, while opening the way to new propulsion modes for the longer term. It is nevertheless a complex subject requiring a multidisciplinary approach.

This book, which is intended to be exhaustive, considers the vehicle, its components, their association and their control, as well as the global balances determined over the vehicle lifetime. It starts with a general presentation of the various conditions of use of vehicles, to give readers an understanding of the stakes related to the development of hybrid vehicles and the methods used to compare the performance of the various solutions. The principles and the various types of internal combustion engine and electrical drives, onboard energy storage systems, principles, architectures, specific components and operation of hybrid drivetrains, as well as the energy management in these vehicles, are developed. A global analysis of the various drivetrains life cycle assessment (LCA), total costs and availability of sensitive materials is also provided. This book is intended for everyone involved in the design, manufacture and implementation of hybrid drive vehicles and their components. It will also be of interest to students, teachers and researchers wishing to acquire or further their knowledge in all fields impacted by drivetrain electrification. More globally, after consulting this book, readers will be in a position to evaluate the technologies related to the concept of drivetrain hybridization, their implementation, balances and generalization conditions. This book is available in French Under the title "Véhicules hybrides". Contents : 1. Vehicle use. 2. Internal combustion engines. 3. Electric drivetrain. 4. On-board energy storage systems. 5. Hybridization. 6. Control of hybrid vehicles. 7. Comparative study of hybrid vehicles: greenhouse gas emissions, energy consumption, and cost. Appendixes. 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. AC Motor Control and Electrical Vehicle Applications provides a guide to the control of AC motors with a focus on its application to electric vehicles (EV). It describes the rotating magnetic flux, based on which dynamic equations are derived. The text not only deals with the induction motor, but covers the permanent magnet synchronous motors (PMSM). Additionally, the control issues are discussed by taking into account the limitations of voltage and current. The latest edition includes more experimental data and expands upon the topics of inverter, pulse width modulation methods, loss minimizing control, and vehicle dynamics. Various EV motor design issues are also reviewed, while comparing typical types of PMSMs. Features Considers complete dynamic modeling of induction and PMSM in the rotating frame. Provides various field-oriented controls, while covering advanced topics in PMSM high speed control, loss minimizing control, and sensorless control. Covers inverter, sensors, vehicle dynamics, driving cycles, etc., not just motor control itself. Offers a comparison between BLDC, surface PMSM, and interior PMSM. Discusses how the motor produces torque and is controlled based on consistent mathematical treatments. Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle. Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle. 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. You paid a lot for your car...Let Chilton help you maintain its value. 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 Each year car manufacturers release new production models that are unique and innovative. The production model is the result of a lengthy process of testing aerodynamics, safety, engine components, and vehicle styling. The new technologies introduced in these vehicles reflect changing standards as well as trends of the market. From Acura to Volvo, this book provides a snapshot of the key engineering concepts and trends of the passenger vehicle industry over the course of a year. For each of the 43 new production models, articles from Automotive Engineering International (AEI) magazine detail technology developments as well as a comprehensive look at the 2013 passenger car models. This book provides those with an interest in new vehicles with all the information on the key automotive engineering and technology advancements of the year. AEI's association with SAE International guarantees that these articles come from a trusted and reliable source with a reputation 100-plus years in the making. The 2013 Passenger Car Yearbook features articles covering a wide variety of topics from styling, safety, testing, hybrid systems, powertrain designs, lightweighting, and materials. Interviews with key designers and engineers offer the reader an in-depth look at the strategies behind the year's technology advancements. This yearbook is a must-read to any vehicle enthusiast or engineer. The 2013 Passenger Car Yearbook explores where automotive engineering and styling is heading in years to come, and where it has come from in the past. This document brings together a set of latest data points and publicly available information relevant for Automotive Industry. We are very excited to share this content and believe that readers will benefit from this periodic publication immensely. There has been ever increasing interest in understanding the various aspects of available resources and production, in terms of need and supply, conservation and environmental impacts and so on. From the current energy scenario, it is very clear that there are serious challenges related in achieving energy sustainability and security worldwide. The aim of this book is to present an overview of progress made towards energy sustainability addressing concerns regarding carbon emission and clean energy resources. Keeping this in mind, the book has chapters on all major energy sources which are being utilized at present, along with those having potential prospects for future. Succeed in the course, your future career, and the ASE A3 Manual Drive Train and Axles certification test with TODAY'S TECHNICIAN: MANUAL TRANSMISSIONS & TRANSAXLES, 6e. You'll find practical, easy-to-understand coverage of a wide range of must-know topics that adhere the 2013 ASE Education Foundation AST/MAST program standards, including dual clutch systems, various limited-slip differential designs, six-speed transmissions, safe work practices, and more. Volume I, the Classroom Manual, covers every topic on the ASE A3 Manual Drive Train and Axles certification test, while Volume II, the Shop Manual, includes job sheets that get you involved in performing hands-on service and repair tasks. In addition, detailed full-color photos show you what to expect when performing a procedure on the job. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Singapore's best homegrown car magazine, with an editorial dream team driving it. We fuel the need for speed! Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle. This magazines is a specialist motoring magazine, we have always catered to the enthusiast in you and brought an unadulterated view of the world of motoring. Sharp, sassy, clean, wittier and edgier than ever before. Drive it home today!

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