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Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles-National Research Council 2015-09-28 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.

Dynamic Analysis and Control System Design of Automatic Transmissions-Shushan Bai 2013-01-01 While the basic working principle and the mechanical construction of automatic transmissions has not changed significantly, increased requirements for performance, fuel economy, and drivability, as well as the increasing number of gears has made it more challenging to design the systems that control modern automatic transmissions. New types of transmissions continuously variable transmissions (CVT), dual clutch transmissions (DCT), and hybrid powertrains have presented added challenges. Gear shifting in today s automatic transmissions is a dynamic process that involves synchronised torque transfer from one clutch to another, smooth engine speed change, engine torque management, and minimisation of output torque disturbance. Dynamic analysis helps to understand gear shifting mechanics and supports creation of the best design for gear shift control systems in passenger cars, trucks, buses, and commercial vehicles. Based on the authors graduate-level teaching material, this well-illustrated book relays how the fundamental principles of hydraulics and control systems are applied to today s automatic transmissions.It opens with coverage of basic automatic transmission mechanics and then details dynamics and controls associated with modern automatic transmissions. Topics covered include: gear shifting mechanics and controls, dynamic models of planetary automatic transmissions, design of hydraulic control systems, learning algorithms for achieving consistent shift quality, torque converter clutch controls, centrifugal pendulum vibration absorbers, friction launch controls, shift scheduling and integrated powertrain controls, continuously variable transmission ratio controls, dual-clutch transmission controls, and more. The book includes many equations and clearly explained examples. Sample Simulink models of various transmission mechanical, hydraulic and control subsystems are also provided. Chapter Two, which covers planetary gear automatic transmissions, includes homework questions, making it ideal for classroom use. In addition to students, new engineers will find the book helpful because it provides the basics of transmission dynamics and control. More experienced engineers will appreciate the theoretical discussions that will help elevate the reader s knowledge. Although many automatic transmission-related books have been published, most focus on mechanical construction, operation principles, and control hardware. None tie the dynamic analysis, control system design, and analytic investigation of the mechanical, hydraulic, and electronic controls as does this book.

GM Automatic Overdrive Transmission Builder's and Swapper's Guide-Cliff Ruggles 2008 Vehicle maintenance.

Machine Learning with R-Abhijit Ghatak 2017-11-23 This book helps readers understand the mathematics of machine learning, and apply them in different situations. It is divided into two basic parts, the first of which introduces readers to the theory of linear algebra, probability, and data distributions and it's applications to machine learning. It also includes a detailed introduction to the concepts and constraints of machine learning and what is involved in designing a learning algorithm. This part helps readers understand the mathematical and statistical aspects of machine learning. In turn, the second part discusses the algorithms used in supervised and unsupervised learning. It works out each learning algorithm mathematically and encodes it in R to produce customized learning applications. In the process, it touches upon the specifics of each algorithm and the science behind its formulation. The book includes a wealth of worked-out examples along with R codes. It explains the code for each algorithm, and readers can modify the code to suit their own needs. The book will be of interest to all researchers who intend to use R for machine learning, and those who are interested in the practical aspects of implementing learning algorithms for data analysis. Further, it will be particularly useful and informative for anyone who has struggled to relate the concepts of mathematics and statistics to machine learning.

How to Rebuild and Modify High-Performance Manual Transmissions-Paul Cangialosi 2010 How to Rebuild and Modify High-Performance Manual Transmissions breaks down the disassembly, inspection, modification/upgrade, and rebuilding process into detailed yet easy-to-follow steps consistent with our other Workbench series books. The latest techniques and insider tips are revealed, so an enthusiast can quickly perform a tear-down, identify worn parts, select the best components, and successfully assemble a high-performance transmission. Transmission expert and designer Paul Cangialosi shares his proven rebuilding methods, insight, and 27 years of knowledge in the transmission industry. He guides you through the rebuilding process for most major high-performance transmissions, including BorgWarner T10 and super T10, GM/Muncie, Ford Toploader, and Tremec T5. This new edition also contains a complete step-by-step rebuild of the Chrysler A833 transmission.

Automotive Automatic Transmission and Transaxles-Keith Santini 2017-05-03 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.

How to Rebuild and Modify Ford C4 and C6 Automatic Transmissions-George Reid 2012 In How to Rebuild and Modify Ford C4 and C6 Automatic Transmissions, author George Reid walks readers through the process step-by-step, from removing the transmission, to complete overhaul, to proper re-installation and road testing.

Ford GT-Adrian Streater 2006 Starting in 1956 when Ford officially entered motor racing, this book takes the reader on a journey of how and why things happened the way they did. Who were the personalities behind the all the different Ford GT development programs, old and new.

Automated and Autonomous Spatial Mobilities-Aharon Kellerman 2018 This ground-breaking book explores a rapidly developing aspect of contemporary life: automated and autonomous spatial mobilities and their social and urban implications. Presenting a wide-ranging discussion on autonomous vehicle (AV) development and its future adoption, this highly topical book points to the emergence of autonomously mobile cities and the new mobility landscapes they will present. Academics, as well as practitioners, in the fields of mobility, transportation, urban planning, geography and sociology will find this an essential read.

Statistical Reference Index- 1985

Electric and Plug-In Hybrid Vehicles-Bogdan Ovidiu Varga 2015-06-12 This book is designed as an interdisciplinary platform for specialists working in electric and plug-in hybrid electric vehicles powertrain design and development, and for scientists who want to get access to information related to electric and hybrid vehicle energy management, efficiency and control. The book presents the methodology of simulation that allows the specialist to evaluate electric and hybrid vehicle powertrain energy flow, efficiency, range and consumption. The mathematics behind each electric and hybrid vehicle component is explained and for each specific vehicle the powertrain is analyzed and output results presented through the use of specific automotive industrial software (AVL Cruise , IPG CarMaker, AVL Concerto). This methodology of electric and hybrid powertrain design serves to broaden understanding of how the energy flow, efficiency, range and consumption of these vehicles can be adjusted, updated and predicted via development processes.

Camaro Restoration-Tom Currao 1990 Camaro Fever...is sweeping the country! And with the help of the Camaro Restoration Handbook, you can restore your 1967 through 1981 Camaro either piece by piece, or from the ground up! Authors Tom Currao and Ron Sessions detail the complete restoration process necessary to turn any street-beaten Camaro into a true show winner! With over 500 photos and drawings, it's the most complete Camaro restoration resource available!

Automotive Transmissions-Harald Naunheimer 2010-11-09 This book gives a full account of the development process for automotive transmissions. Main topics: - Overview of the traffic - vehicle - transmission system - Mediating the power flow in vehicles - Selecting the ratios - Vehicle transmission systems - basic design principles - Typical designs of vehicle transmissions - Layout and design of important components, e.g. gearshifting mechanisms, moving-off elements, pumps, retarders - Transmission control units - Product development process, Manufacturing technology of vehicle transmissions, Reliability and testing The book covers manual, automated manual and automatic transmissions as well as continuously variable transmissions and hybrid drives for passenger cars and commercial vehicles. Furthermore, final drives, power take-offs and transfer gearboxes for 4-WD-vehicles are considered. Since the release of the first edition in 1999 there have been a lot of changes in the field of vehicles and transmissions. About 40% of the second edition's content is new or revised with new data.

Performance Data for New Passenger Cars and Motorcycles- 1971

The Complete Corvette-Tom Falconer 2003-05 The author of "Corvette Sting-Ray" now offers a model-by-model history of the hottest American sports car.

The BMW Century-Tony Lewin 2016-11-01 Relive the first one hundred years of Germany's best two- and four-wheeled rides. Established in 1916, BMW is one of the auto and motorcycle industry's oldest and most-respected car and motorcycle manufacturers. Over the past century, the company went through myriad developments. The BMW Century chronicles this remarkable transportation company through images of the cars and motorcycles it manufactured, from the 1923 R32 motorcycle to sleek electric cars of today. This handsome volume is filled with images, history, and in-depth looks at the incredible machines BMW created year after year. The BMW Century showcases how the company's new visionary team systematically rebuilt BMW in the post-World War II years into the spectacular success we know today - that is, a company with sales projected to be upwards of two million cars annually by 2016, led by its 3-series, the best-selling luxury-performance car in the world. BMW's motorcycle division is no less legendary. It began with the 1923 avant-garde R32, which featured a 180-degree, horizontally opposed twin, the engine configuration that would become BMW's hallmark. Along the way, BMW would use that configuration to power groundbreaking machines like the R90S, R100RS, and R80GS. Beginning in 1983, they would add three- and four-cylinder machines to their offerings, culminating in today's spectacular S1000RR sport bike. From the pre-war motorcycles to the iconic R-series twins of the 1970s and 80s to the mighty M-series cars and superbikes of today, The BMW Century offers a full review of German engineering at its finest. The book is illustrated with hundreds of historic, contemporary, and racing photographs - many sourced from BMW's archives - and detailed text relating the BMW's full history. This is the one volume no BMW aficionado can be without.

Autocar- 1995

Automotive Technician Training: Theory-Tom Denton 2014-04-16 A blended learning approach to automotive engineering at levels one to three. Produced alongside the ATT online learning resources, this textbook covers all the theory and technology sections that students need to learn in order to pass levels 1, 2 and 3 automotive courses. It is recommended by the Institute of the Motor Industry and is also ideal for exams run by other awarding bodies. Unlike the current textbooks on the market though, this title takes a blended learning approach, using interactive features that make learning more enjoyable as well as more effective. When linked with the ATT online resources it provides a comprehensive package that includes activities, video footage, assessments and further reading. Information and activities are set out in sequence so as to meet teacher and learner needs as well as qualification requirements. Tom Denton is the leading UK automotive author with a teaching career spanning lecturer to head of automotive engineering in a large college. His nine automotive textbooks published since 1995 are bestsellers and led to his authoring of the Automotive Technician Training multimedia system that is in common use in the UK, USA and several other countries.

The Mopar Six-Pack Engine Handbook-Larry Shepard 2008 A step-by-step guide to rebuilding, restoring, and modifying the famous Mopar "Six-Pack" engines that appeared in all of Chrysler's muscle cars from 1969 through 1971, as well as the late- model small-blocks and crate performance motors currently offered by Chrysler.

How to Rebuild and Modify Chrysler 426 Hemi Engines-Larry Shepard 2007 Rebuild or race Chrysler's most popular engine. A step-by-step guide to rebuilding and modifying one of the most famous engines built in the U.S., including sections on racing heritage, cylinder block, ignition and lubrication systems, and racing parts.

The Art of Driving Stick-Mark Johnston 2015-04-21 So you want to drive stick... You've heard that driving stick gives you more control of your car in every situation, from a passing maneuver to descending a snowy hill. You've heard driving a stick shift car is more economical at the gas pump. You've heard it's more fun. But you've also heard it's hard to learn. There are gearshifts to master, your engine can stall, and understanding the clutch is a nightmare: "Lift the clutch pedal and the clutch is engaged." Engaged? I've never even seen a clutch with a girlfriend! So, what if I told you using a clutch is no more difficult than using a faucet, or that I can teach you - in one sentence - how to avoid ever stalling your engine? I've already taught thousands of people to drive stick - men and women of all ages - normal people, not engineering students or race car engineers. And I can teach you.

AMC Muscle Cars : Muscle Car Color History-Larry G. Mitchell Anybody who wanted to go toe to toe with the Big Three in the 1960s had to produce credible muscle cars. American Motors Corporation did exactly that with the SC Rambler and the incredibly fast AMX. Some argue, however, that AMC's insistence on pouring its relatively limited resources into the "muscle wars" ultimately led to its demise. Illustrated throughout with modern photography of restored and factory-original cars, archival images, AMC concept drawings, period advertisements, and cutaway illustrations, this color history primarily focuses on the conception, development, production, and performance of the AMX, as well as the Javelin upon which it was based. Special models like the Mark Donohue Signature Edition Javelin, along with the less-than-well-received Marlin, Rebel, SST, Hornet 360, Gremlin X, and others are also included.

The Naked Voice: A Wholistic Approach to Singing-W. Stephen Smith 2007-02-19 In The Naked Voice, W. Stephen Smith invites all singers to improve their vocal technique through his renowned and time-tested wholistic method. Focusing not only on the most important technical, but also on the often overlooked psychological and spiritual elements of learning to sing, his book allows readers to develop their own full and individual identities as singers. With philosophies and techniques drawn from a lifetime of teaching voice, Smith demonstrates how one can reveal the true unique sound of one's own voice by singing with the whole self. The masters method, presented in concrete and comprehensible terms with helpful illustrations, is enhanced by a companion website containing exercises performed by singers from Smith's own studio-singers whose talent and training bring them across the country and around the world. The clear and easy style of The Naked Voice welcomes the reader into Smith's teaching studio, and into conversation with Smith himself as he presents the six simple and elegant exercises that form the core of his method. These exercises provide a foundation for free singing, and lead singers through the step-by-step process of mastering the technique. Throughout, Smith speaks sympathetically and encouragingly to the singer in search of an unencumbered and effective approach to the art. The Naked Voice is a must-read for all singers, giving teachers and students, amateurs and professionals, access to the methods and concepts that have earned Smith his reputation as one of the most highly-sought-after vocal instructors in the international arena today.

The Ultimate Fuel Saving Guide-

Design Practices--passenger Car Automatic Transmissions- 1994 First published in 1962, with a second edition in 1973, and a revised second edition in 1988 (as AE-5). A compendium of the latest current practices of transmission engineering, for both experienced and novice transmission design engineers. Design calculations are included wherever possible. This ed

Ward's Auto World- 2004

Knowledge Concepts and Categories-Koen Lamberts 2013-10-28 Knowledge, Concepts and Categories brings together an overview of recent research on concepts and knowledge that abstracts across a variety of specific fields of cognitive psychology. Readers will find data from many different areas: developmental psychology, formal modelling, neuropsychology, connectionism, philosophy, and so on. The book can be divided into three parts. Chapters 1 to 5 each contain a thorough and systematic review of a significant aspect of research on concepts and categories. Chapters 6 to 9 are concerned primarily with issues related to the taxonomy of human knowledge. Finally, Chapters 10 to 12 discuss formal models of categorization and function learning. The purpose of these three chapters is to provide a few examples of current formal modelling of conceptual behaviour. Knowledge, Concepts and Categories will be welcomed by students and researchers in cognitive psychology and related areas as an unusually wide-ranging and authoritative review of an important subfield of psychology.

How Your Car Works-Arvid Linde 2011-10-15 Describes the systems and parts of gasoline-powered, diesel, electric, hybrid, and alternative propulsion automobiles.

MGB & MGB GT - Your Expert Guide to Problems & How to Fix Them-Roger Williams 2013-10-28 First book in the exciting new Auto-Doc series from Veloce Publishing. With Auto-Doc the doctor's on call 24-7. Your very own expert on all the MGB's common faults and foibles - and how to fix them. Establish quickly by , sound, vibration, appearance or smell what fault a symptom represents and how serious the problem is. The essential companion for all owners of MGBs & MGB GTs (except V8 models). Prepared in association with the MGOOC (MG Owners Club).

Riding in the Zone-Ken Condon 2019-10-15 Riding motorcycles is fun, but author Ken Condon maintains that there is a state of consciousness to be achieved beyond the simple pleasure of riding down the road. Riding in the Zone helps riders find that state of being. It's the experience of being physically and mentally present in the moment, where every sense is sharply attuned to the ride. Your mind becomes silent to the chatter of daily life, and everyday problems seem to dissolve. You feel a deeper appreciation for life. Your body responds to this state of being with precise, fluid movements, you feel in balance, your muscles are relaxed, and it seems as though every input you make is an expression of mastery. This is "the Zone." Condon identifies all of the factors that affect entering the Zone and addresses each one individually, from the development of awareness and mental skills to mastering physical control of the motorcycle. At the end of each chapter are drills designed to transform the book's ideas into solid, practical riding skills. Riding in the Zone takes riders to the next level in their skill set.

Decline and Fall of the Auto Man Empire-Carl Meredith 2009-12 A Gearhead Boomer's Auto Biography and Lamentations on General Motors

The Best Interface Is No Interface-Golden Krishna 2015-01-31 Our love affair with the digital interface is out of control. We've embraced it in the boardroom, the bedroom, and the bathroom. Screens have taken over our lives. Most people spend over eight hours a day staring at a screen, and some "technological innovators" are hoping to grab even more of your eyeball time. You have screens in your pocket, in your car, on your appliances, and maybe even on your face. Average smartphone users check their phones 150 times a day, responding to the addictive buzz of Facebook or emails or Twitter. Are you sick? There's an app for that! Need to pray? There's an app for that! Dead? Well, there's an app for that, too! And most apps are intentionally addictive distractions that end up taking our attention away from things like family, friends, sleep, and oncoming traffic. There's a better way. In this book, innovator Golden Krishna challenges our world of nagging, screen-based bondage, and shows how we can build a technologically advanced world without digital interfaces. In his insightful, raw, and often hilarious criticism, Golden reveals fascinating ways to think beyond screens using three principles that lead to more meaningful innovation. Whether you're working in technology, or just wary of a gadget-filled future, you'll be enlightened and entertained while discovering that the best interface is no interface.

In Your Car-Kelley Styring 2010-04 "Wearing latex gloves, Kelley Styring picks through the interior of a Chevrolet Malibu like a CSI technician searching for clues... Consumer strategist, savvy researcher and fearless innovator Kelley Styring has stalked shoppers in grocery stores, watched people shower, peeked inside purses and questioned gum chewers via Twitter, all in the name of science. Her passion: to learn new information about consumers, uncover exciting product opportunities and inspire innovation. Now, the author of In Your Purse: Archaeology of the American Handbag has packed up the family in a shiny Honda Pilot and headed for the open road, determined to find out what's In Your Car! ...as any marketer will tell you, you are what you drive, and the stuff you take with you on the journey can reveal even more." Chris Woodyard, "Is There Junk In Your Trunk Right Now?" USA Today, July 2, 2008 "With In Your Car, Styring delivers an object lesson in how to make research fun and make it work at the same time: push yourself to use the simple questions to get past the obvious answers and learn some really big things." Joel Benenson, lead pollster to President Obama, president and co-founder of Benenson Strategy Group "Think you know cars? Buckle up! Styring drives you through the wide open spaces and little known outposts of the great American automobile. This gifted cultural archeologist inspires new marketing-to-driver-and-passenger ideas you won't leave in the glove box. I loved this ride!" Nan McCann, co-founder, M2W(r)... The Marketing to Women Conference "Styring reminds us once again that the best research and road trips both offer adventure, excitement and danger around every curve. Hit the road with In Your Car and rev up your business! Marti Barletta, author of Marketing to Women and PrimeTime Women, and CEO of The TrendSight Group

Statistical Reference Index ... Cumulative Index- 1980 A selective guide to American statistical publications from private organizations and state government sources.

Top Dead Center 2-Kevin Cameron 2009-11-12 A second collection of articles and columns by one of the world's best motorcycle writers, arranged thematically and with brief new introductions by the author.

Secret Walks-Charles Fleming 2015-05-12 Secret Walks: A Walking Guide to the Hidden Trails of Los Angeles is a sequel to the popular Secret Stairs: A Walking Guide to the Historic Staircases of Los Angeles, and features another collection of exciting urban walks through parks, canyons, and neighborhoods unknown and unseen by most Angelinos. Each walk is rated for duration, distance, and difficulty, and is accompanied by a map. The walks, like those in Secret Stairs, are filled with fascinating factoids about historical landmarks—the original Bat Cave from Batman, the lake where Opie learned to fish on The Andy Griffith Show, or the storage barn for one of L.A.'s oldest wineries. The book also highlights the people who made the landmarks famous: the infamous water engineer William Mulholland; the convicted murderer and philanthropist Colonel Griffith J. Griffith; Charles Lummis, who walked from Cincinnati to Los Angeles to take a job on the L.A. Times; and tobacco millionaire Abbot Kinney, who dug canals to drain the marshes south of Santa Monica and create his American "Venice." Written in the entertainingly informed style that has made Secret Stairs a Los Angeles Times best-seller, Secret Walks is the perfect book for the walker eager to explore but tired of the crowds at Runyon Canyon or Temescal Park.

Secret Stairs-Charles Fleming 2010-04-01 Containing walks and detailed maps from throughout the city, Secret Stairs highlights the charms and quirks of a unique feature of the Los Angeles landscape, and chronicles the geographical, architectural, and historical aspects of the city's staircases, as well as of the neighborhoods in which the steps are located. From strolling through the classic La Loma neighborhood in Pasadena to walking the Sunset Junction Loop in Silver Lake, to taking the Beachwood Canyon hike through "Hollywoodland" to enjoying the magnificent ocean views from the Castellammare district in Pacific Palisades, Secret Stairs takes you on a tour of the staircases all across the City of Angels. The circular walks, rated for duration and difficulty, deliver tales of historic homes and their fascinating inhabitants, bits of unusual local trivia, and stories of the neighborhoods surrounding the stairs. That's where William Faulkner was living when he wrote the screenplay for To Have and Have Not; that house was designed by Neutra; over there is a Schindler; that's where Woody Guthrie lived, where Anais Nin died, and where Thelma Todd was murdered . . . Despite the fact that one of these staircases starred in an Oscar-winning short film—Laurel and Hardy's The Music Box, from 1932—these civic treasures have been virtually unknown to most of the city's residents and visitors. Now, Secret Stairs puts these hidden stairways back on the map, while introducing urban hikers to exciting new "trails" all around the city of Los Angeles.

Statistical Reference Index ... Annual- 1980

Mercedes-Benz SL & SLC 107 Series-Brian Long 2010-12-15 This detailed and beautifully illustrated book covers the Mercedes-Benz 107 series, which ran from 1971 to 1989. Written by a highly regarded motoring historian, with many years' ownership of the type in question, this is THE definitive study of the subject. All major world markets are looked at, along with competition history. Extensive appendices cover engine specifications, chassis numbers, build numbers, and so on.

Auto Repair For Dummies-Deanna Sclar 2019-01-07 Auto Repair For Dummies, 2nd Edition (9781119543619) was previously published as Auto Repair For Dummies, 2nd Edition (9780764599026). While this version features a new Dummies cover and design, the content is the same as the prior release and should not be considered a new or updated product. The top-selling auto repair guide--400,000 copies sold--now extensively reorganized and updated Forty-eight percent of U.S. households perform at least some automobile maintenance on their own, with women now accounting for one third of this \$34 billion automotive do-it-yourself market. For new or would-be do-it-yourself mechanics, this illustrated how-to guide has long been a must and now it's even better. A complete reorganization now puts relevant repair and maintenance information directly after each automotive system overview, making it much easier to find hands-on fix-it instructions. Author Deanna Sclar has updated systems and repair information throughout, eliminating discussions of carburetors and adding coverage of hybrid and alternative fuel vehicles. She's also revised schedules for tune-ups and oil changes, included driving tips that can save on maintenance and repair costs, and added new advice on troubleshooting problems and determining when to call in a professional mechanic. For anyone who wants to

save money on car repairs and maintenance, this book is the place to start. Deanna Sclar (Long Beach, CA), an acclaimed auto repair expert and consumer advocate, has contributed to the Los Angeles Times and has been interviewed on the Today show, NBC Nightly News, and other television programs.

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