
File Type PDF Modern Automotive Technology By James E Duffy 2009 04 24

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Comprehending as with ease as union even more than new will provide each success. next-door to, the message as well as acuteness of this Modern Automotive Technology By James E Duffy 2009 04 24 can be taken as capably as picked to act.

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The auto industry is facing tough competition and severe economic constraints. Their products need to be designed "right the first time" with the right combinations of features that not only satisfy the customers but continually please and delight them by providing increased functionality, comfort, convenience, safety, and craftsmanship. Based on t

Covers the design, construction, operation, diagnosis, service, and repair of automatic transmissions and transaxles.

Performance Vehicle Dynamics: Engineering and Applications offers an accessible treatment of the complex material needed

to achieve level seven learning outcomes in the field. Users will gain a complete, structured understanding that enables the preparation of useful models for characterization and optimization of performance using the same Automotive or Motorsport industry techniques and approaches. As the approach to vehicle dynamics has changed over time, largely due to advances in computing power, the subject has, in practice, always been computer intensive, but this use has changed, with modeling of relatively complex vehicle dynamics topics now even possible on a PC. Explains how to numerically and computationally model vehicle dynamics Features

the use of cost functions with multi-body models Learn how to produce mathematical models that offer excellent performance prediction

The Anarchist Cookbook will shock, it will disturb, it will provoke. It places in historical perspective an era when "Turn on, Burn down, Blow up" are revolutionary slogans of the day. Says the author" "This book... is not written for the members of fringe political groups, such as the Weatherman, or The Minutemen. Those radical groups don't need this book. They already know everything that's in here. If the real people of America, the silent majority, are going to survive, they must edu-

cate themselves. That is the purpose of this book." In what the author considers a survival guide, there is explicit information on the uses and effects of drugs, ranging from pot to heroin to peanuts. There is detailed advice concerning electronics, sabotage, and surveillance, with data on everything from bugs to scramblers. There is a comprehensive chapter on natural, non-lethal, and lethal weapons, running the gamut from cattle prods to sub-machine guns to bows and arrows.

When a meteorite lands in Surrey, the locals don't know what to make of it. But as Martians emerge and begin killing bystanders, it quickly becomes clear—England is under attack. Armed soldiers converge on the scene to ward off the invaders, but meanwhile, more Martian cylinders land on Earth, bringing reinforcements. As war breaks out across England, the locals must fight for their lives, but life on Earth will never be the same. This is an unabridged version of one of the first fictional accounts of extraterrestrial invasion. H. G. Wells's military science fiction novel was first published in book form in 1898, and is considered a classic of English literature.

Top Gear's James May is back with his hilarious and controversial opinions on . . . just about everything. As well as writing about his first love, cars, James has a go at political correctness, the endless rules and regulations of daily life, the internal combustion engine and traffic wardens. He discusses gastropubs, Jeremy Clarkson and other trials of modern life. His highly entertaining observations from behind the wheel will have you laughing out loud, whether you share his opinions, or not. *Car Fever* is an indispensable guide to life for the modern driver.

In this sweeping cultural history, James Flink provides a fascinating account of the creation of the world's first automobile culture. He offers both a critical survey of the development of automotive technology and the automotive industry and an analysis of the social effects of "automobility" on workers and consumers.

This revolutionary textbook is supported by the industry and is specifically tailored to the learners' needs, so you can be sure that we are providing everything they need to excel at level 1 and level 2.

This book presents the state of the art,

challenges and future trends in automotive software engineering. The amount of automotive software has grown from just a few lines of code in the 1970s to millions of lines in today's cars. And this trend seems destined to continue in the years to come, considering all the innovations in electric/hybrid, autonomous, and connected cars. Yet there are also concerns related to onboard software, such as security, robustness, and trust. This book covers all essential aspects of the field. After a general introduction to the topic, it addresses automotive software development, automotive software reuse, E/E architectures and safety, C-ITS and security, and future trends. The specific topics discussed include requirements engineering for embedded software systems, tools and methods used in the automotive industry, software product lines, architectural frameworks, various related ISO standards, functional safety and safety cases, cooperative intelligent transportation systems, autonomous vehicles, and security and privacy issues. The intended audience includes researchers from academia who want to learn what the fundamental challenges are and how they are being tackled in the in-

dustry, and practitioners looking for cutting-edge academic findings. Although the book is not written as lecture notes, it can also be used in advanced master's-level courses on software and system engineering. The book also includes a number of case studies that can be used for student projects.

Major buildings, energy supply systems, chemical plants, food processing, and aircraft are all examples of engineering today. Despite such diversity, nearly all engineering fields rely on common principles and methods, and there is remarkable similarity in the daily work of engineers. Engineers spend most effort organising and coordinating collaborative work by all the diverse people involved, guided by their technical knowledge and experience. Unlike physics or biology, where immutable laws underpin the study, the essence of engineering is found in how theory is applied judgements. To quickly grasp the nature of engineering the fifty summaries in 30-Second Engineering outlines types of engineering from mechanical to chemical; the universal stages of a collaborative engineering project; and the key ways engineering can solve the challenges of our fu-

ture earth.

The best-selling automotive technology book for students and professionals. Revised and updated throughout to match C&G and IMI awards (4000 series) this book is the most comprehensive text for the FE market. It covers the needs of C&G 4001 and all of the underpinning knowledge required for motor vehicle engineering NVQs up to level 3. Copiously illustrated with over 1000 images, it is certain to remain a highly popular and valuable text for both students and practicing engineers. * Incomparable breadth and depth of coverage, over 1000 illustrations and Institute of the Motor Industry recommended: this is the core book for students of automotive engineering * Fully up to date with latest IMI and C&G 4000 series course requirements and provides all the underpinning knowledge required for NVQs to level 3 * New material covering latest development in electronics, alternative fuels, emissions and diesel systems

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.

This highly engaging DVD training series features the most up-to-date content and latest technologies for all aspects of collision repair, including structural and non-structural repair as well as refinishing. Both the theoretical and practical aspects of auto body repair technology are detailed, preparing viewers for what it takes to be a successful auto body repair technician. Safe work techniques are stressed throughout and uphold the importance of following procedures as shown to ensure a secure repair environment.

Fully updated throughout, *Electric Vehicle Technology, Second Edition*, is a complete guide to the principles, design and applications of electric vehicle technology. Including all the latest advances, it presents clear and comprehensive coverage of the major aspects of electric vehicle development and offers an engineering-based eval-

uation of electric motor scooters, cars, buses and trains. This new edition includes: important new chapters on types of electric vehicles, including pickup and linear motors, overall efficiencies and energy consumption, and power generation, particularly for zero carbon emissions expanded chapters updating the latest types of EV, types of batteries, battery technology and other rechargeable devices, fuel cells, hydrogen supply, controllers, EV modeling, ancillary system design, and EV and the environment brand new practical examples and case studies illustrating how electric vehicles can be used to substantially reduce carbon emissions and cut down reliance on fossil fuels futuristic concept models, electric and high-speed trains and developments in magnetic levitation and linear motors an examination of EV efficiencies, energy consumption and sustainable power generation. MATLAB® examples can be found on the companion website www.wiley.com/go/electricvehicle2e Explaining the underpinning science and technology, this book is essential for practicing electrical, automotive, power, control and instrumentation engineers working in EV research and development. It is

also a valuable reference for academics and students in automotive, mechanical, power and electrical engineering.

Instructors edition contains a variety of instructional support in the margins of each page to supplement your instruction. Includes answers to end-of-chapter review questions and ASE-type questions.

Autonomous vehicle technology has the potential to significantly improve social welfare. This report addresses the numerous legislative, regulatory, and liability issues this technology will raise.

How Cars Work is a completely illustrated primer describing the 250 most important car parts and how they work. This mini test book includes wonderfully simple line drawings and clear language to describe all the automotive systems as well as a glossary, index, and a test after each chapter. *How Cars Work* provides the basic vocabulary and mechanical knowledge to help a reader talk intelligently with mechanics understand shop manuals, and diagnosis car problems. Tom Newton guides the reader with a one topic per page format that delivers information in bite size chunks, just right for teenage boys. *How*

Cars Work was the most stolen book at Kennedy High School in Richmond California! Teachers like our title and so do librarians. The History channel, Modern Marvels-2000, Actuality Productions, Inc is using How Cars Work to train staff for a documentary on automobiles.

Modern Automotive Technology for Maintenance and Light Repair is an easy-to-understand, up-to-date textbook detailing the construction and operation of automobiles and light trucks. It has been designed to help prepare aspiring technicians for exciting and productive careers in automobile technology. It also provides the information needed to prepare for the ASE Maintenance and Light Repair certification test. No longer can the untrained person effectively service and repair modern vehicles. As technology has evolved, even the most basic automotive systems have become increasingly complex. Multiple on-board computers are now used to monitor and control the engine, transmission, suspension, brakes, emission controls, and other vital vehicle systems. As the demand has grown for technicians who can service and repair these increasingly sophisticated automotive systems, so has the need for a

learning solution that prepares students for entry-level employment in this exciting field. Modern Automotive Technology for Maintenance and Light Repair will give you the tools needed to begin your career in the challenging and ever-changing world of automotive technology.

Automotive Scan Tool PID Diagnostics (Diagnostics Strategies of Modern Automotive Systems) By Mandy Concepcion In this section, the different techniques of scan tool parameter (PID) analysis will be exposed. Techniques involving PID analysis are quickly catching on, due to their speed and accuracy. By properly analyzing the different scanner PIDs, the technician can arrive at the source of the problem much faster and accurately. These procedures give rise to the new term "driver seat diagnostics", since most of the preliminary diagnostic work is done through the scanner. However, these techniques will in no way replace the final manual tests that are a part of every diagnostic path. They are simply geared to point the technician in the right direction. Table of Contents INTRODUCTION (Introduction to scan tool diagnostics and the relevance of using PIDs or scanner parameter to perform the first

leg of all diagnostics.) - Theory of Operation Behind the Different PIDs (Describes CARB, the difference between generic and enhanced PIDs, the FTP) - OBD II Generic PIDs (PID calculated and actual values, calculated data relationships, base injection timing, ECM value substitution) - OBD I & II General PID analysis (erasing code-or not, recording, analyzing and pinpoint tests, separating PIDs into groups) - Fuel Delivery Fault Detection (fuel delivery issues, intake air temp. sensor, BARO sensor, Engine LOAD, RPM PID, Short-Term Fuel Trims, Long-Term Fuel Trims, 60% of check engine light issues, block learn/integrators, Example 1: injector fault, Example 2: intake gasket issues, fuel status, ignition timing, MAP/MAF, TPS, O2 sensor, IAC, Closed Throttle, injector pulse width, voltage power, injector dutycycle, fuel trim cell) - Test #1 (Determining an engine's fuel Consumption (rich-lean operation, duty-cycle to fuel trim relationship, O2 sensor to fuel trim relation, FT and vacuum leaks, ignition timing and idle control, test conclusion) - Test # 2 (Misfire Detection Strategy, EGR, Ignition and Mechanical misfires) (misfires and OBD2, scanner misfire detection - a time saver, OBD2 40 and 80 cycle

misfire, ignition, injector and EGR density misfire, coil-on-plug, misfires and O2 sensor, lean O2 & Secondary misfire, O2 sensor & injector misfires, leaky injector, EGR and the MAP, Type A, B, C misfires, test conclusion) - Test # 3 (Air/Fuel Ratio Faults) (air-fuel imbalance, MAF and post O2 sensors, open-closed-loop, fuel enable, HC & CO relation to AF issues, test conclusion) - Test # 4 (BARO, MAP & MAF PID analysis) (MAP & valve timing faults, ECM behavior, fuel delivery or duty cycle test, volumetric efficiency, , test conclusion) - Test # 5 (Clogged exhaust) (clogged catalytic converter detection, TPS, MAF and converters, idle and WOT or wide open throttle values, vacuum readings, MAP to WOT charts analysis, engine and MAP vacuum, test conclusion) - Test # 6 (EGR Fault Detection) (EGR and MAP values, ECM reaction to EGR issues, EGR temp sensor, DPFE sensor, EGR and O2-MAP and lift position sensor, EGR and engine pre-loading, EGR and the ECM erroneous high LOAD issues, test conclusion) - Test # 7 (O2 Sensor Heater) (O2 heaters and why?, tough to check O2 heater issues, O2 heater effect on signal output, O2 heater bias voltage, engine off and O2 changing value, test conclusion) -

Test # 8 (Resetting Fuel Trims) (resetting injection pulse corrections, long-term and short-term fuel trims, learn condition, Lambda, case study on fuel trims, FT resetting according to manufacturer, test conclusion) - Test # 9 (Engine Cranking Vacuum Test) (MAP/MAF cranking vacuum, vacuum to PID analysis, vacuum leaks, gauge-PID test, sources of leaks, cranking values, test conclusion)

An Introduction to Modern Vehicle Design starts from basic principles and builds up analysis procedures for all major aspects of vehicle and component design. Subjects of current interest to the motor industry - such as failure prevention, designing with modern material, ergonomics, and control systems - are covered in detail, with a final chapter discussing future trends in automotive design. Extensive use of illustrations, examples, and case studies provides the reader with a thorough understanding of design issues and analysis methods.

Automotive Technology: Principles, Diagnosis, and Service, Fourth Edition, meets the needs for a comprehensive book that covers all eight areas of automotive service, plus the soft skills and tool knowledge that

must also be taught. Because many automotive systems are intertwined, presenting all systems together in one text makes it easier for the student to see how they are all connected. Topics are divided into 133 short chapters, which makes it easier for instructors and students to learn and master the content.

"This book is an introduction to automotive technology, with specific reference to battery electric, hybrid electric, and fuel cell electric vehicles. It could serve electrical engineers who need to know more about automobiles or automotive engineers who need to know about electrical propulsion systems. For example, this reviewer, who is a specialist in electric machinery, could use this book to better understand the automobiles for which the reviewer is designing electric drive motors. An automotive engineer, on the other hand, might use it to better understand the nature of motors and electric storage systems for application in automobiles, trucks or motorcycles. The early chapters of the book are accessible to technically literate people who need to know something about cars. While the first chapter is historical in nature, the second chapter is a good introduction to au-

tomobiles, including dynamics of propulsion and braking. The third chapter discusses, in some detail, spark ignition and compression ignition (Diesel) engines. The fourth chapter discusses the nature of transmission systems.” —James Kirtley, Massachusetts Institute of Technology, USA “The third edition covers extensive topics in modern electric, hybrid electric, and fuel cell vehicles, in which the profound knowledge, mathematical modeling, simulations, and control are clearly presented. Featured with design of various vehicle drivetrains, as well as a multi-objective optimization software, it is an estimable work to meet the needs of automotive industry.” —Haiyan Henry Zhang, Purdue University, USA “The extensive combined experience of the authors have produced an extensive volume covering a broad range but detailed topics on the principles, design and architectures of Modern Electric, Hybrid Electric, and Fuel Cell Vehicles in a well-structured, clear and concise manner. The volume offers a complete overview of technologies, their selection, integration & control, as well as an interesting Technical Overview of the Toyota Prius. The technical chapters are comple-

mented with example problems and user guides to assist the reader in practical calculations through the use of common scientific computing packages. It will be of interest mainly to research postgraduates working in this field as well as established academic researchers, industrial R&D engineers and allied professionals.” —Christopher Donaghy-Sparg, Durham University, United Kingdom The book deals with the fundamentals, theoretical bases, and design methodologies of conventional internal combustion engine (ICE) vehicles, electric vehicles (EVs), hybrid electric vehicles (HEVs), and fuel cell vehicles (FCVs). The design methodology is described in mathematical terms, step-by-step, and the topics are approached from the overall drive train system, not just individual components. Furthermore, in explaining the design methodology of each drive train, design examples are presented with simulation results. All the chapters have been updated, and two new chapters on Mild Hybrids and Optimal Sizing and Dimensioning and Control are also included • Chapters updated throughout the text. • New homework problems, solutions, and examples. • Includes two new chapters. • Features ac-

companying MATLAB™ software.

"Modern Automotive Technology details the construction, operation, diagnosis, service, and repair of late-model automobiles and light trucks. This comprehensive textbook uses a building-block approach that starts with the fundamental principles of system operation and progresses gradually to complex diagnostic and service procedures. The Workbook is organized to follow the textbook on a chapter-by-chapter basis, providing questions to help the student review the material presented in the chapter."--From publisher description.

Examines Japan's innovative, highly successful production methods

Auto Upkeep is an introductory automotive book that provides the fundamental knowledge and experience in owning and maintaining an automobile. From choosing an insurance policy to performing basic maintenance and repair, Auto Upkeep is the do-it-yourself automotive guide for the driver in you. Auto Upkeep helps keep you safe and your vehicle reliable by providing easy-to-follow information with detailed pictures and drawings. Discover how to choose a quality repair facility, buy a car,

handle roadside emergencies, diagnose common problems, and communicate effectively with technicians – all while saving money. Workbook Activities: Chapter 1 – Car Identification Activity; Chapter 2 – Buying a New Automobile Activity and Buying a Used Automobile Activity; Chapter 3 – Automotive Expenses Activity; Chapter 4 – Repair Facilities Activity; Chapter 5 – Automotive Safety Activity; Chapter 6 – Basic Tools Activity; Chapter 7 – Interior Cleaning Activity, Exterior Cleaning Activity, and Waxing Activity; Chapter 8 – Fluid Level Check Activity; Chapter 9 – Battery Activity, Charging Activity, and Starting Activity; Chapter 10 – Oil & Filter Change Activity; Chapter 11 – Fuel System Activity; Chapter 12 – Air Conditioning Activity, Cabin Air Filter Activity, and Cooling System Activity; Chapter 13 – Ignition System Activity; Chapter 14 – Suspension & Steering Activity and Tire Inspection & Rotation Activity; Chapter 15 – Brake Inspection Activity; Chapter 16 – Drivetrain Activity; Chapter 17 – Exhaust & Emissions Activity; Chapter 18 – Payback Period Activity; Chapter 19 – Auto Accessories Activity; Chapter 20 – Changing a Flat Tire Activity, Jump-Starting Activity, Lighting Activity, Replacing

Wipers Activity, and On-Board Diagnostics Activity. 152 Full Color Pages - Over 200 Photos and Illustrations - 32 Hands-on and Internet-based Activities.

Now revised and updated, this book tells the story of how the automobile transformed American life and how automotive design and technology have changed over time. It details cars' inception as a mechanical curiosity and later a plaything for the wealthy; racing and the promotion of the industry; Henry Ford and the advent of mass production; market competition during the 1920s; the development of roads and accompanying highway culture; the effects of the Great Depression and World War II; the automotive Golden Age of the 1950s; oil crises and the turbulent 1970s; the decline and then resurgence of the Big Three; and how American car culture has been represented in film, music and literature. Updated notes and a select bibliography serve as valuable resources to those interested in automotive history.

This text is designed to be a supplement to all courses in Automotive Technology. This text is part of the Pearson Automotive Series. Preparing today's automotive students for career success! Market-leading

ASE Test Prep and Study Guide has been fully updated and expanded to address the latest technology and automotive systems. Written to current ASE tasks and standards, the guide covers ASE areas A1-A9, G1, and L1 with hundreds of test questions that use similar wording to the actual ASE certification tests. The new third edition includes a list of the task that ASE states will be covered in the certification tests as well as the time allocated for each test. The study guide also includes a complete explanation for why the right answer is correct as well as why the wrong answers are not correct. The 3rd edition reflects changes to the ASE certification tests since the last revision. It includes many new questions, some with electrical schematics, as well as new test prep features. Auto Electricity and Electronics covers the design, operation, diagnosis, and repair of starting, charging, ignition, lighting, and other electrical/electronic automotive systems. It stresses the use of on-board diagnostics and conventional meter tests, to find electrical, electronic, and computer-related problems in late-model vehicles. ASE-type questions at the end of each chapter help prepare students for the

types of questions encountered on the ASE certification tests. This textbook is correlated to the Electrical/Electronic Systems section of the ASE Education Foundation Task List and is a valuable resource to those preparing for ASE Certification Test A6, Electrical/Electronic Systems.

Teaches students to diagnose, service, and repair all makes and models of gasoline and diesel engines.

NOTE: You are purchasing a standalone product; MyAutomotiveLab does not come packaged with this content. If you would like to purchase both the physical text and MyAutomotiveLab search for ISBN-10: 0134009088 / ISBN-13: 9780134009087. That package includes ISBN-10: 0133994619 / ISBN-13: 9780133994612 and ISBN-10: 0133995542/ISBN-13: 9780133995541. MyAutomotiveLab should only be purchased when required by an instructor. This title is intended for courses in Automotive Principles, Service, and/or Mechanics in technical trade schools and high schools. It also serves as an additional resource to prep for ASE certification, and as a useful reference for practicing professionals. Prepare tomorrow's automo-

tive professionals for success Automotive Technology: Principles, Diagnosis, and Service, Fifth Edition covers all eight areas of automotive service, showing readers how automotive systems are connected, as well as the practical skills that students must master to be successful in the industry. Topics are divided into short chapters, which makes it easier to assign, learn, and master the content. Formatted to appeal to today's technical trade students, Halderman uses helpful tips and visuals to bring concepts to life and guide students through the procedures they'll use on the job. To keep your course current, all of the content is correlated to the latest NATEF tasks and ASE areas, and information on hot topics like electric and hybrid vehicles is included. Also available with MyAutomotiveLab This title is also available with MyAutomotiveLab-an online homework, tutorial, and assessment program designed to work with Automotive Technology to engage students and improve results. We've improved MyAutomotiveLab to better reflect the way instructors teach today. Now organized by ASE area, the new, easier-to-use design makes creating and personalizing assignments more intuitive

and includes a new assignment calendar, which helps you document your students' progress.

Designed for beginning level courses, this text provides a more comprehensive introduction than other books on the same topic. It has extensive coverage of electronic controls, including current topics like OBD II, digital storage oscilloscopes, as well as computer controls in the anti-lock braking, traction control systems, body computer systems, passive restraint systems, computer controlled transmissions, computer controlled suspensions and computer controlled air conditioning. Troubleshooting and diagnostics are emphasized throughout and the book contains case studies to further illustrate concepts. Safety is stressed using "Cautions and Warnings". Chapter-end exercises include a generous quantity of ASE-style questions.

Modern Automotive Technology details the construction, operation, diagnosis, service, and repair of automobiles and light trucks. This easy-to-understand, comprehensive text uses a building-block approach that starts with the fundamental principles of system operation and progresses gradually to complex diagnostic and service proce-

dures. Modern Automotive Technology is a valuable resource for anyone who needs a thorough understanding of today's complex vehicles, as well as those preparing for ASE certification tests. - Back cover.

Modern Automotive Technology details the construction, operation, diagnosis, service, and repair of late-model automobiles and light trucks. This comprehensive textbook uses a building-block approach that starts with the fundamental principles of system operation and progresses gradually to complex diagnostic and service procedures. Short sentences, concise definitions, and thousands of colour illustrations help students learn quickly and easily. The new edition of Modern Automotive Technology provides coverage of the latest developments in the automotive field and is correlated to the 2012 NATEF Task List. A new "Fundamentals of Electricity and Electronics" section provides students with the background needed to troubleshoot and repair complex electrical/electronic systems found in today's vehicles. Updated information on hybrid drive systems has been integrated throughout the textbook, and a new hybrid drive service chapter details

the diagnosis and repair of these important systems. Each project in the NATEF Standards Job Sheets contains the jobs required to diagnose and service a specific automotive system or components, providing initial training for employment as an entry-level automotive technician. This product can be used to supplement Modern Automotive Technology or any other automotive program.

Completely revised and updated, Hillier's famous text is now available as three separate volumes. Book 2 concentrates on Powertrain management systems: Engine management (petrol and diesel) and transmission management (manual and automatic). All the associated fundamental information on sensors actuators and electronic control systems is included, as well as more advanced material. The information builds up from basic control systems to those linked by multiplexing.

James and Olivia have been happily married for many years. A harmless kink here or there spices up their love life, but they can't imagine the kinks they'll encounter while sneaking to the beach for a long, hot weekend. Anso has ruled the wereseals for one short month. He hardly needs his au-

thority questioned because he's going crazy from mating heat. Then Anso's best friend and male lover Ty offers to help find the human mate his genes require. To Ty's amazement, Anso's quest leads him to claim not one partner but a pair. Ty would object, except he too finds the human couple hopelessly attractive . . . "The most captivating and titillating story I have read in some time . . . Flaming hot . . . even under water"-Tara's Blog

Modern Automotive Technology is an easy-to-understand, up-to-date book detailing the operation, construction, and repair of automobiles and light trucks. This comprehensive text uses a building-block approach that starts with the fundamental principles of system operation and progresses gradually to complex diagnostic and service procedures. The 2009 edition features a new chapter on hybrid drive train operation and service, as well as a new chapter on career success. It also contains new information on the latest developments in the field, including tire pressure monitoring systems, computer networks, and direct gasoline injection. Organized around the eight ASE automobile test areas, this text is a must for students

preparing for a career in automotive technology. Full-color illustrations, short sentences, concise definitions and thousands of photographs make teaching successful and learning easy. Modern Automotive Technology is backed by a strong teaching package, including a Shop Manual with 177 NATEF Standards Job Sheets that are

organized into 48 projects. This full-color Shop Manual provides complete coverage of all the P-1 tasks, as well as many of the P-2 and P-3 tasks. All the teaching package items give you the tools to provide successful automotive instruction. This bundle includes a copy of the Student Text and an Online Text (6-Year Classroom Subscription). Students can instantly access the On-

line Text with browser-based devices, including iPads, netbooks, PCs, and Mac computers. With G-W Online Textbooks, students easily navigate linked table of contents, search specific topics, quickly jump to specific pages, enlarge for full-screen reading mode, and print selected pages for offline reading.