

Modern Automotive Technology Chapter 48

Journalist Walls grew up with parents whose ideals and stubborn nonconformity were their curse and their salvation. Rex and Rose Mary and their four children lived like nomads, moving among Southwest desert towns, camping in the mountains. Rex was a charismatic, brilliant man who, when sober, captured his children's imagination, teaching them how to embrace life fearlessly. Rose Mary painted and wrote and couldn't stand the responsibility of providing for her family. When the money ran out, the Walls retreated to the dismal West Virginia mining town Rex had tried to escape. As the dysfunction escalated, the children had to fend for themselves, supporting one another as they found the resources and will to leave home. Yet Walls describes her parents with deep affection in this tale of unconditional love in a family that, despite its profound flaws, gave her the fiery determination to carve out a successful life. -- From publisher description.

Fundamentals of Automotive Technology: Principles and Practice covers crucial material for career and technical education, secondary/post-secondary, and community college students and provides both rationales and step-by-step instructions for virtually every non-diagnosis NATEF task. Each section provides a comprehensive overview of a key topic area, with real-life problem scenarios that encourage students to develop connections between different skill and knowledge components. Customer service, safety, and math, science, and literary principles are demonstrated throughout the text to build student skill levels. Chapters are linked via cross-reference tools that support skill retention, critical thinking, and problem-solving. Students are regularly reminded that people skills are as important as technical skills in customer service fields.

"A damning denunciation of things as they are, and a platform for how we can do better."—Andrew Leonard, Salon Building on the international bestseller Globalization and Its Discontents, Joseph E. Stiglitz offers here an agenda of inventive solutions to our most pressing economic, social, and environmental challenges, with each proposal guided by the fundamental insight that economic globalization continues to outpace both the political structures and the moral sensitivity required to ensure a just and sustainable world. As economic interdependence continues to gather the peoples of the world into a single community, it brings with it the need to think and act globally. This trenchant, intellectually powerful, and inspiring book is an invaluable step in that process.

Automotive technicians must learn how to safely and effectively maintain, diagnose, and repair every system on the automobile. Fundamentals of Automotive Technology provides students with the critical knowledge and essential skills to master these tasks successfully. With a focus on clarity and accuracy, the Second Edition offers students and instructors a single source of unparalleled coverage for every task from MLR through MAST. Fully updated and reorganized, the revised format enhances student comprehension and encourages critical thinking.

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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 automotive 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.

Thorough and accessible, this book presents the design principles of biological systems, and highlights the recurring circuit elements that make up biological networks. It provides a simple mathematical framework which can be used to understand and even design biological circuits. The text avoids specialist terms, focusing instead on several well-studied biological systems that concisely demonstrate key principles. An Introduction to Systems Biology: Design Principles of Biological Circuits builds a solid foundation for the intuitive understanding of general principles. It encourages the reader to ask why a system is designed in a particular way and then proceeds to answer with simplified models.

"Theory and practical content that fulfills the requirements for the Master Level ASE Foundation Automotive Technology program accreditation. Designed primarily for post-secondary community college, apprenticeship, and private college automotive technology programs. Meets the ASE Education Foundation Accreditation standards. Dovetails with CDX Online learning management system, including over 1,000 videos and interactive animations. Part of a complete training curriculum"--

The 31st Leeds-Lyon Symposium on Tribology was held at Trinity and All Saints College in Leeds under the title "Life Cycle Tribology" from Tuesday 7th September until Friday 10th September 2004. Over the three days of presentations that followed, life cycle tribology was explored across a range of areas including automotive tribology, bearings, bio-degradability and sustainability, bio-tribology, coatings, condition monitoring, contact mechanics, debris effects, elastohydrodynamic lubrication, lubricants, machine systems, nanotribology, rolling contact fatigue, transmissions, tribochemistry and wear and failure. Invited talks in these fields were presented by leading international researchers and practitioners, namely C.J. Hooke, J.A. Williams, R.J.K. Wood, G. Isaac, S.C. Tung, D. Price, I. Sherrington, M. Hadfield, K. Kato, R.I. Taylor, H.P. Evans, R.S. Dwyer-Joyce and H. Rahnejat.

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.

Advancing technology continues to improve the operation and integration of the various systems of the automobile. These changes present ongoing challenges for students aiming to become successful automotive technicians. The fourth Canadian edition of *Automotive Technology: A Systems Approach* was designed and written to continue to prepare students for those challenges. This book concentrates on the need-to-know essentials of the various automotive systems (and how they have changed from the vehicles of yesterday), the operation of today's vehicles, and what to expect in the near future. New technology is addressed throughout the book in addition to the standard technology that students can expect to see in most vehicles. Each topic is explained in a logical way. Many years of teaching have provided the author team of this text with a good sense of how students read and study technical material, as well as what draws their interest to a topic and keeps it there. This knowledge has been incorporated in the writing and the features of this book.

Air pollution, global warming, and the steady decrease in petroleum resources continue to stimulate interest in the development of safe, clean, and highly efficient transportation. Building on the foundation of the bestselling first edition, *Modern Electric, Hybrid Electric, and Fuel Cell Vehicles: Fundamentals, Theory, and Design, Second Edition* updates and expands its detailed coverage of the vehicle technologies that offer the most promising solutions to these issues affecting the automotive industry. Proven as a useful in-depth resource and comprehensive reference for modern automotive systems engineers, students, and researchers, this book speaks from the perspective of the overall drive train system and not just its individual components. New to the second edition: A case study appendix that breaks down the Toyota Prius hybrid system Corrections and updates of the material in the first edition Three new chapters on drive train design methodology and control principles A completely rewritten chapter on Fundamentals of Regenerative Braking Employing sufficient mathematical rigor, the authors comprehensively cover vehicle performance characteristics, EV and HEV configurations, control strategies, modeling, and simulations for modern vehicles. They also cover topics including: Drive train architecture analysis and design methodologies Internal Combustion Engine (ICE)-based drive trains Electric propulsion systems Energy storage systems Regenerative braking Fuel cell applications in vehicles Hybrid-electric drive train design The first edition of this book gave practicing engineers and students a systematic reference to fully understand the essentials of this new technology. This edition introduces newer topics and offers deeper treatments than those included in the first. Revised many times over many years, it will greatly aid engineers, students, researchers, and other professionals who are working in automotive-related industries, as well as those in government and academia.

Increasing tension between Julius Caesar and Pompeius Magnus (Pompey the Great) after the death of Marcus Licinius Crassus soon degenerated into military conflict. With his hand considerably strengthened by his election as Dictator by the Senate in Rome, Caesar knew that power would only be a reality once he had militarily defeated Pompey. By August 49BC, Caesar had effectively destroyed Pompey's armies in Spain, but, by the time he had crossed the Adriatic pursuing him eastward, his forces were heavily outnumbered. Even with the reinforcements brought by Mark Antony, his attempt to crush Pompey by laying siege to Dyrrachium was unsuccessful and he eventually had to withdraw into Thessaly, with Pompey in pursuit. The stage was set for the final clash of the two titans of the Roman world and the odds were heavily in Pompey's favour, with 45,000 men against Caesar's 22,000. However, the veteran legions loyal to Caesar were the best in the Roman army and the challenge he faced clearly stimulated Caesar's tactical genius for battle. Guessing that Pompey would attempt to overwhelm his right wing with his cavalry, he concealed elite cohorts of legionnaires behind his own heavily outnumbered horsemen with orders to fight at close quarters like pikemen. Caesar's predictions were correct and, far from overwhelming his exposed right flank,

Pompey's left flank was routed, allowing Caesar to envelop and scatter the rest of his army. Simon Sheppard expertly charts the events leading up to the Pharsalus campaign, the course of the battle itself and the seismic implications of this decisive clash between the two greatest generals of their age.

The mission of the United States Army is to fight and win our nation's wars by providing prompt, sustained land dominance across the full range of military operations and spectrum of conflict in support of combatant commanders. Accomplishing this mission rests on the ability of the Army to equip and move its forces to the battle and sustain them while they are engaged. Logistics provides the backbone for Army combat operations. Without fuel, ammunition, rations, and other supplies, the Army would grind to a halt. The U.S. military must be prepared to fight anywhere on the globe and, in an era of coalition warfare, to logistically support its allies. While aircraft can move large amounts of supplies, the vast majority must be carried on ocean going vessels and unloaded at ports that may be at a great distance from the battlefield. As the wars in Afghanistan and Iraq have shown, the costs of convoying vast quantities of supplies is tallied not only in economic terms but also in terms of lives lost in the movement of the materiel. As the ability of potential enemies to interdict movement to the battlefield and interdict movements in the battlespace increases, the challenge of logistics grows even larger. No matter how the nature of battle develops, logistics will remain a key factor. Force Multiplying Technologies for Logistics Support to Military Operations explores Army logistics in a global, complex environment that includes the increasing use of antiaccess and area-denial tactics and technologies by potential adversaries. This report describes new technologies and systems that would reduce the demand for logistics and meet the demand at the point of need, make maintenance more efficient, improve inter- and intratheater mobility, and improve near-real-time, in-transit visibility. Force Multiplying Technologies also explores options for the Army to operate with the other services and improve its support of Special Operations Forces. This report provides a logistics-centric research and development investment strategy and illustrative examples of how improved logistics could look in the future.

Many modern surface coatings and adhesives are derived from fossil feedstocks. With fossil fuels becoming more polluting and expensive to extract as supplies dwindle, industry is turning increasingly to nature, mimicking natural solutions using renewable raw materials and employing new technologies. Highlighting sustainable technologies and applications of renewable raw materials within the framework of green and sustainable chemistry, circular economy and resource efficiency, this book provides a cradle-to-cradle perspective. From potential feedstocks to recycling/reuse opportunities and the de-manufacture of adhesives and solvents, green chemistry principles are applied to all aspects of surface coating, printing, adhesive and sealant manufacture. This book is ideal for students, researchers and industrialists working in green sustainable chemistry, industrial coatings, adhesives, inks and printing technologies.

Written by experienced technicians, MODERN DIESEL TECHNOLOGY: HEAVY EQUIPMENT SYSTEMS, 2nd Edition combines manufacturer-based and universal information into a single, reliable resource. The book's unique focus on off-highway mobile equipment systems delivers service and repair essentials for heavy equipment, agricultural equipment, and powered lift truck technology. Detailing everything from safety to best practices, chapter coverage addresses four key areas: hydraulics, heavy duty brakes, and drivetrains, as well as steering, suspension, and track systems. The 2nd Edition of MODERN DIESEL TECHNOLOGY: HEAVY EQUIPMENT SYSTEMS also includes the latest updates in computer-controlled hydraulics, GPS, electronic controls for other systems to help you master the ever-evolving responsibilities of specialty technicians. Important Notice: Media content referenced within the product

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Issues consist of lists of new books added to the library ; also articles about aspects of printing and publishing history, and about exhibitions held in the library, and important acquisitions.

The Global Innovation Index 2020 provides detailed metrics about the innovation performance of 131 countries and economies around the world. Its 80 indicators explore a broad vision of innovation, including political environment, education, infrastructure and business sophistication. The 2020 edition sheds light on the state of innovation financing by investigating the evolution of financing mechanisms for entrepreneurs and other innovators, and by pointing to progress and remaining challenges – including in the context of the economic slowdown induced by the coronavirus disease (COVID-19) crisis.

Medical imaging has transformed the ways in which various conditions, injuries, and diseases are identified, monitored, and treated. As various types of digital visual representations continue to advance and improve, new opportunities for their use in medical practice will likewise evolve. *Medical Imaging: Concepts, Methodologies, Tools, and Applications* presents a compendium of research on digital imaging technologies in a variety of healthcare settings. This multi-volume work contains practical examples of implementation, emerging trends, case studies, and technological innovations essential for using imaging technologies for making medical decisions. This comprehensive publication is an essential resource for medical practitioners, digital imaging technologists, researchers, and medical students.

Witty and softly sardonic, William Schiffs autobiographical romp describes his lifelong travels from early childhood to the Golden Years. *Growing Up and Getting Old Behind the Wheel: An American Auto Biography* is framed in a web of Americana, including cars he has ridden in, driven, modified, and even stolen. The span of his story is peppered with allusions to the locales, books, films, music, and social politics of the times he has experienced. He describes his youthful descent with friends into light criminalityhis incarceration, and his ultimate salvation and redemption through America's universities, rather than through its Churches. He sketches his menial jobs as a youth, as well as his later roles as student, university professor, parent, behavioral scientist, and retiree. If youve lived in America between 1940 and today, youll want to come along on the engrossing scenic drive through his vivid memories.

"This book set unites fundamental research on the history, current directions, and implications of gaming at individual and organizational levels, exploring all facets of game design and application and describing how this emerging discipline informs and is informed by society and culture"--Provided by publisher.

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.

Offers students opportunities to strengthen their comprehension of key concepts and to develop their hands-on, practical shop experience. Each chapter includes Concept Activities and Job Sheets, many of which are directly correlated to specific NATEF tasks. Service manual report sheets, case studies, review questions are also included to offer a rounded approach to each lesson. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

MODERN DIESEL TECHNOLOGY: LIGHT DUTY DIESELS, Second Edition, provides a thorough introduction to the light-duty diesel engine, the engine of choice to optimize fuel efficiency and longevity in workhorse pickup trucks, refrigeration units, agricultural equipment and generators. While the major emphasis is on highway usage, best-selling author Sean Bennett also addresses current and legacy, small stationary and mobile off-highway diesels. Using a modularized structure, Bennett helps readers achieve a strong conceptual grounding in diesel engine technology while emphasizing hands-on technical competency. The text explores current diesel engine subsystems and management electronics in detail, while also providing a solid foundation in mechanical engine systems. All generations of CAN-bus technology are covered, including the basics of network bus troubleshooting. The author uses simple language to make even complex concepts easier to master and focuses on helping readers gain the knowledge and expertise they need for career success as diesel technicians, including addressing ASE A9 task learning objectives in detail. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

AUTO BODY REPAIR TECHNOLOGY, Sixth Edition, features extensive new and updated material reflecting the latest automotive technology and current industry best practices. In addition to incorporating current ASE Education Foundation Collision Repair and Refinish Program Standards and Task Lists, this market-leading book provides detailed information on working with hybrid and electric vehicles, using environmentally friendly water-based paints, and other cutting-edge methods and materials. Celebrated for its clear, reader-friendly explanations and detailed, accurate information, this proven guide also includes abundant full-color photos and illustrations to make even complex concepts easier to understand and apply. Available supplements include a tech manual with shop assignments and job sheets, as well as interactive online resources ideal for today's learners. Providing comprehensive coverage of collision repair—from initial evaluation and estimating, to structural and mechanical repairs, to repainting and refinishing—this trusted guide helps you quickly and confidently learn the skills and procedures you need to succeed as a professional automotive technician. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The second edition of a comprehensive introduction to all aspects of mobile robotics,

from algorithms to mechanisms. Mobile robots range from the Mars Pathfinder mission's teleoperated Sojourner to the cleaning robots in the Paris Metro. This text offers students and other interested readers an introduction to the fundamentals of mobile robotics, spanning the mechanical, motor, sensory, perceptual, and cognitive layers the field comprises. The text focuses on mobility itself, offering an overview of the mechanisms that allow a mobile robot to move through a real world environment to perform its tasks, including locomotion, sensing, localization, and motion planning. It synthesizes material from such fields as kinematics, control theory, signal analysis, computer vision, information theory, artificial intelligence, and probability theory. The book presents the techniques and technology that enable mobility in a series of interacting modules. Each chapter treats a different aspect of mobility, as the book moves from low-level to high-level details. It covers all aspects of mobile robotics, including software and hardware design considerations, related technologies, and algorithmic techniques. This second edition has been revised and updated throughout, with 130 pages of new material on such topics as locomotion, perception, localization, and planning and navigation. Problem sets have been added at the end of each chapter. Bringing together all aspects of mobile robotics into one volume, *Introduction to Autonomous Mobile Robots* can serve as a textbook or a working tool for beginning practitioners. Curriculum developed by Dr. Robert King, Colorado School of Mines, and Dr. James Conrad, University of North Carolina-Charlotte, to accompany the National Instruments LabVIEW Robotics Starter Kit, are available. Included are 13 (6 by Dr. King and 7 by Dr. Conrad) laboratory exercises for using the LabVIEW Robotics Starter Kit to teach mobile robotics concepts.

Resource added for the Automotive Technology program 106023.

For any organization to be successful, it must operate in such a manner that knowledge and information, human resources, and technology are continually taken into consideration and managed effectively. Business concepts are always present regardless of the field or industry – in education, government, healthcare, not-for-profit, engineering, hospitality/tourism, among others. Maintaining organizational awareness and a strategic frame of mind is critical to meeting goals, gaining competitive advantage, and ultimately ensuring sustainability. The *Encyclopedia of Organizational Knowledge, Administration, and Technology* is an inaugural five-volume publication that offers 193 completely new and previously unpublished articles authored by leading experts on the latest concepts, issues, challenges, innovations, and opportunities covering all aspects of modern organizations. Moreover, it is comprised of content that highlights major breakthroughs, discoveries, and authoritative research results as they pertain to all aspects of organizational growth and development including methodologies that can help companies thrive and analytical tools that assess an organization's internal health and performance. Insights are offered in key topics such as organizational structure, strategic leadership, information technology management, and business analytics, among others. The knowledge compiled in this publication is designed for entrepreneurs, managers, executives, investors, economic analysts, computer engineers, software programmers, human resource departments, and other industry professionals seeking to understand the latest tools to emerge from this field and who are looking to incorporate them in their practice. Additionally, academicians, researchers, and students in fields that include but are not limited to business,

management science, organizational development, entrepreneurship, sociology, corporate psychology, computer science, and information technology will benefit from the research compiled within this publication.

This book provides a thorough overview of cutting-edge research on electronics applications relevant to industry, the environment, and society at large. It covers a broad spectrum of application domains, from automotive to space and from health to security, while devoting special attention to the use of embedded devices and sensors for imaging, communication and control. The book is based on the 2019 ApplePies Conference, held in Pisa, Italy in September 2019, which brought together researchers and stakeholders to consider the most significant current trends in the field of applied electronics and to debate visions for the future. Areas addressed by the conference included information communication technology; biotechnology and biomedical imaging; space; secure, clean and efficient energy; the environment; and smart, green and integrated transport. As electronics technology continues to develop apace, constantly meeting previously unthinkable targets, further attention needs to be directed toward the electronics applications and the development of systems that facilitate human activities. This book, written by industrial and academic professionals, represents a valuable contribution in this endeavor.

This book includes selected peer-reviewed papers presented at the International Conference on Modeling, Simulation and Optimization, organized by National Institute of Technology, Silchar, Assam, India, during 3–5 August 2020. The book covers topics of modeling, simulation and optimization, including computational modeling and simulation, system modeling and simulation, device/VLSI modeling and simulation, control theory and applications, modeling and simulation of energy system and optimization. The book disseminates various models of diverse systems and includes solutions of emerging challenges of diverse scientific fields. The first of many important works featured in CRC Press' Metals and Alloys Encyclopedia Collection, the Encyclopedia of Iron, Steel, and Their Alloys covers all the fundamental, theoretical, and application-related aspects of the metallurgical science, engineering, and technology of iron, steel, and their alloys. This Five-Volume Set addresses topics such as extractive metallurgy, powder metallurgy and processing, physical metallurgy, production engineering, corrosion engineering, thermal processing, metalworking, welding, iron- and steelmaking, heat treating, rolling, casting, hot and cold forming, surface finishing and coating, crystallography, metallography, computational metallurgy, metal-matrix composites, intermetallics, nano- and micro-structured metals and alloys, nano- and micro-alloying effects, special steels, and mining. A valuable reference for materials scientists and engineers, chemists, manufacturers, miners, researchers, and students, this must-have encyclopedia: Provides extensive coverage of properties and recommended practices Includes a wealth of helpful charts, nomograms, and figures Contains cross referencing for quick and easy search Each entry is written by a subject-matter expert and reviewed by an international panel of renowned researchers from academia, government, and industry. Also Available Online This Taylor & Francis encyclopedia is also available through online subscription, offering a variety of extra benefits for researchers, students, and librarians, including: Citation tracking and alerts Active reference linking Saved searches and marked lists HTML and PDF format options Contact Taylor and Francis for more information or to inquire about subscription options and print/online combination packages. US: (Tel) 1.888.318.2367; (E-mail) e-reference@taylorandfrancis.com International: (Tel) +44 (0) 20 7017 6062; (E-mail) online.sales@tandf.co.uk

From the New York Times bestselling author of the smash hit One Second After series comes

48 Hours, a nail-biting and prescient thriller about a solar storm with the power to destroy the world's electrical infrastructure. In 48 hours, the Earth will be hit by a Coronal Mass Ejection (CME) from the Sun, a "Carrington Event" that has the power to shut down and possibly destroy the world's electrical infrastructure. To try and prevent permanent damage, everything goes dark prior to the hit: global communications are shut down; hospital emergency generators are disconnected; the entire internet, media broadcasting, and cell phone systems are turned off. Will the world's population successfully defend itself in the wake of the CME, or will mass panic lead to the breakdown of society as we know it? William R. Forstchen is at his best in 48 Hours, a tale of the resilience of American citizens when faced with a crisis.

In this book the authors present the current state of both research and technological application of magnesium. In particular, casting and wrought alloys are presented in Chapter 5, followed by a large chapter dedicated to fabrication methods. Corrosion and Protection are treated in Chapter 7. Chapter 8 discusses Engineering Requirements, Strategies and Examples for automobiles in Europe, USA, Asia and Pacific and also for Aerospace and Consumer Articles. Chapter 10 is dedicated to recycling. The experience of authors from seven countries has been combined to produce this book. The book addresses materials researchers as well as design engineers. TOC: Introduction.- History.- Production Technologies.- Physical Metallurgy.- Melting, Alloying and Refining.- Alloys of Practical Importance.- Fabrication Methods.- Corrosion and Surface Protection.- Engineering Requirements, Strategies and Examples.- Recycling.- Data Sheet.

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 Online 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.

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