

Fundamentals Of Automotive Technology Principles And Practice

This bundle contains Fundamentals of Automotive Technology, 2nd edition AND 2017 NATEF Tasksheet Manual AND 1 Year Access to Fundamentals of Automotive Technology ONLINE. Please note: For sale in the US and Canada only, contact your local agent to request specific pricing and ordering information. This product is intended for individual student use in an instructor-led course. A Course ID provided by an instructor is required before registration can be completed.

This bundle contains Fundamentals of Automotive Maintenance and Light Repair, Second Edition AND Student Workbook AND 1 Year Access to Maintenance and Light Repair ONLINE. Please note: For sale in the US and Canada only, contact your local agent to request specific pricing and ordering information. This product is intended for individual student use in an instructor-led course. A Course ID provided by an instructor is required before registration can be completed.

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Designed to prepare new technicians for ASE G1 Certification, Fundamentals of Automotive Maintenance and Light Repair, Second Edition covers the foundational theory and skills necessary to prepare entry-level technicians to maintain and repair today's light duty vehicles.

Fundamentals of Automotive Technology

Principles and Practice

Fundamentals of Automotive Technology, Third Edition, Student Workbook, and 1 Year Online Access to Fundamentals of Automotive Technology Online

Fundamentals of Automotive Technology with 2 Year Access to Fundamentals of Automotive Technology Online

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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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 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.

This Student Workbook Contains Exercises To Reinforce What You Will Learn In Both Fundamentals Of Automotive Technology, Principles And Practice, Second Edition And The Classroom. The Student Workbook Is Designed To Encourage Critical Thinking And Aid Comprehension Through A Variety Of Exercises In Each Chapter, Including: ASE-Type Questions, Skill Drill Activities, Labeling, And More.

Fundamentals of Automotive Technology with 1 Year Access to Fundamentals of Automotive Technology Online

FUNDAMENTALS OF AUTOMOTIVE TECHNOLOGY + STUDENT WORKBOOK + 2 YEAR FAT ONLINE ACCESS CARD PACK.

Fundamentals of Automotive Technology Tasksheet Manual: 2017 Natef Edition

Hillier's Fundamentals of Motor Vehicle Technology

The motor vehicle technology covered in this book has become in the more than 125 years of its history in many aspects an extremely complex and, in many areas of engineering science . Motor vehicles must remain functional under harsh environmental conditions and extreme continuous loads and must also be reliably brought into a safe state even in the event of a failure by a few trained operators. The automobile is at the same time a mass product, which must be produced in millions of pieces and at extremely low cost. In addition to the fundamentals of current vehicle systems, the book also provides an overview of future developments such as, for example, in the areas of electromobility, alternative drives and driver assistance systems. The basis for the book is a series of lectures on automotive engineering, which has been offered by the first-named author at the University of Duisburg-Essen for many years. Starting from classical systems in the automobile, the reader is given a systemic view of modern motor vehicles. In addition to the pure basic function, the modeling of individual (sub-) systems is also discussed. This gives the reader a deep understanding of the underlying principles. In addition, the book with the given models provides a basis for the practical application in the area of ??simulation technology and thus achieves a clear added value against books, which merely explain the function of a system without entering into the modeling. On the basis of today's vehicle systems we will continue to look at current and future systems. In addition to the state-of-the-art, the reader is thus taught which topics are currently dominant in research and which developments can be expected for the future. In particular, a large number of practical examples are provided directly from the vehicle industry. Especially for students of vehicle-oriented study courses and lectures, the book thus enables an optimal preparation for possible future fields of activity.

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Fundamentals of Automotive TechnologyPrinciples and PracticeJones & Bartlett Publishers

Hybrid drives and the operation of hybrid vehicles are characteristic of contemporary automotive technology. Together with the electronic driver assistant systems, hybrid technology is of the greatest importance and both cannot be ignored by today's car drivers. This technical reference book provides the reader with a firsthand comprehensive description of significant components of automotive technology. All texts are complemented by numerous detailed illustrations.

Advanced Automotive Fault Diagnosis

Automotive Technology

Fundamentals of Automotive Technology Tasksheet Manual

Standard Drives, Hybrid Drives, Brakes, Safety Systems

"Thoroughly updated and expanded, 'Fundamentals of Medium/Heavy Duty Commercial Vehicle Systems, Second Edition' offers comprehensive coverage of basic concepts building up to advanced instruction on the latest technology, including distributed electronic control systems, energy-saving technologies, and automated driver-assistance systems. Now organized by outcome-based objectives to improve instructional clarity and adaptability and presented in a more readable format, all content seamlessly aligns with the latest ASE Medium-Heavy Truck Program requirements for MTST."--Back cover.

Automotive Electronic Systems deals with the technological principles and practices used in modern electronic automotive systems. The book includes how electronic control units function in the whole electronic system of the car. After a brief introduction to the mechanical parts of the car, the electronic and microprocessor systems are discussed. Although electronic devices are controlled either by analogue or digital systems, the trend is toward the use of digital. The basic principles of operation of a microprocessor are therefore given attention by the author. Cars depend heavily on sensors, thus, the importance of the different sensors, such as temperature sensors, direct air flow sensors, and turbine flowmeters, is comprehensively explained. Another part of the automotive system is the actuators or relays and both the solenoid and motors are discussed. The operations of the electrical system from the generator, electronic ignition system, to electronic fuel control systems are examined. The book explains the choking device in the electronic fuel control system that is needed when starting a car or the throttle butterfly potentiometer that monitors the movement of the plate in the carburetor every time the accelerator pedal is pushed down or released. The other electronic and computer controlled devices in today's modern cars such as on-board computers and electronic control of body systems are also comprehensively discussed. This book is helpful to car engine enthusiasts, car mechanics, car electricians, operators of car diagnostic equipment, and instructors of automotive electronic systems.

Diagnostics, or fault finding, is a fundamental part of an automotive technician's work, and as automotive systems become increasingly complex there is a greater need for good diagnostic skills. Advanced Automotive Fault Diagnosis is the only book to treat automotive diagnostics as a science rather than a check-list procedure. Each chapter includes basic principles and examples of a vehicle system followed by the appropriate diagnostic techniques, complete with useful diagrams, flow charts, case studies and self-assessment questions. The book will help new students develop diagnostic skills and help experienced technicians improve even further. This new edition is fully updated to the latest technological developments. Two new chapters have been added - On-board diagnostics and Oscilloscope diagnostics - and the coverage has been matched to the latest curricula of motor vehicle qualifications, including: IMI and C&G Technical Certificates and NVQs; Level 4 diagnostic units; BTEC National and Higher National qualifications from Edexcel; International Motor Vehicle qualifications such as C&G 3905; and ASE certification in the USA.

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FUNDAMENTALS OF AUTOMOTIVE TECHNOLOGY + STUDENT WORKBOOK + TASKSHEET MANUAL + FUNDAMENTALS OF... AUTOMOTIVE TECHNOLOGY ONLINE, 2 YEAR ACCESS.

2017 Natef Edition

Powertrain Electronics

Principles, Diagnosis, and Service

Fundamentals of Automotive Technology: Principles and Practice, Third Edition is a comprehensive resource that provides students with the necessary knowledge and skills to successfully master these tasks

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.

Resource added for the Automotive Technology program 106023.

Automotive Steering and Suspension, published as part of the CDX Master Automotive Technician Series, arms students with the basic knowledge and skills they need to accomplish a variety of tasks in the shop. Taking a "strategy-based diagnostics" approach, this book helps students master technical trouble-shooting in order to address the problem correctly on the first attempt.

Fundamentals of Automotive Electronics

Vehicle Technology

Fundamentals of Automotive Technology, Second Edition, Student Workbook, Tasksheet Manual, and 2 Year Online Access to Fundamentals of Automotive Technology Online

Automotive Electronic Systems

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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.

Fundamentals of Automotive Technology, Second Edition, Student Workbook, and 2 Year Online Access to Fundamentals of Automotive Technology ONLINE

Fundamentals of Automotive Maintenance and Light Repair, Second Edition, Student Workbook, and 1 Year Online Access to Maintenance and Light Repair ONLINE

Automotive Engineering Fundamentals

Fundamentals of Automotive Technology, Third Edition, Student Workbook, and 2 Year Online Access to Fundamentals of Automotive Technology Online

This book discusses the principle of automotive intelligent technology from the point of view of modern sensing and intelligent control. Based on the latest research in the field, it explores safe driving with intelligent vision; intelligent monitoring of dangerous driving; intelligent detection of automobile power and transmission systems; intelligent vehicle navigation and transportation systems; and vehicle-assisted intelligent technology. It draws on the author ' s research in the field of automotive intelligent technology to explain the fundamentals of vehicle intelligent technology, from the information sensing

principle to mathematical models and the algorithm basis, enabling readers to grasp the concepts of automotive intelligent technology. Opening up new scientific horizons and fostering innovative thinking, the book is a valuable resource for researchers as well as undergraduate and graduate students.

The Fundamentals Of Automotive Technology Tasksheet Manual, 2017 NATEF Edition Is Designed To Guide Students Through The Tasks Necessary To Meet National Automotive Technicians Education Foundation (NATEF) Requirements. Based On The New 2017 NATEF Automobile Accreditation Task Lists, This Updated Edition Provides Tasks That Meet All Levels Of Accreditation Requirements (Maintenance & Light Repair (MLR), Auto Service Technology (AST), And Master Auto Service Technology (MAST)). This Manual Will Assist Students In Demonstrating Hands-On Performance

And Proficiency In Fundamentals, Diagnosis, Service, And Repair Of Cars And Light Trucks. It Can Also Serve As A Personal Portfolio Of Documented Experience For Prospective Employment.

Suitable for students with no experience in electricity and electronics, this volume in the CDX Master Automotive Technician Series introduces students to the basic skills and tools they need to perform electrical diagnosis in the shop. Utilizing a " strategy-based diagnostics " approach, this book helps students master technical trouble-shooting in order to properly resolve the customer concern on the first attempt.

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Fundamentals of Automotive Maintenance and Light Repair

Fundamentals of Automotive and Engine Technology

Fundamentals of Automotive Technology, Second Edition, Student Workbook, and 1 Year Online Access to Fundamentals of Automotive Technology ONLINE

Technical foundations of current and future motor vehicles

This book introduces the principles and practices in automotive systems, including modern automotive systems that incorporate the latest trends in the automobile industry. The fifteen chapters present new and innovative methods to master the complexities of the vehicle of the future. Topics like vehicle classification, structure and layouts, engines, transmissions, braking, suspension and steering are illustrated with modern concepts, such as battery-electric, hybrid electric and fuel cell vehicles and vehicle maintenance practices. Each chapter is supported with examples, illustrative figures, multiple-choice questions and review questions. Aimed at senior undergraduate and graduate students in automotive/automobile engineering, mechanical engineering, electronics engineering, this book covers the following: Construction and working details of all modern as well as fundamental automotive systems

Complexities of operation and assembly of various parts of automotive systems in a simplified manner Handling of automotive systems and integration of various components for smooth functioning of the vehicle **Modern topics such as battery-electric, hybrid electric and fuel cell vehicles** **Illustrative examples, figures, multiple-choice questions and review questions at the end of each chapter**

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.

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Gives students of automotive engineering a basic understanding of the principles involved with designing a vehicle and includes details of engines and transmissions, vehicle aerodynamics and computer modelling.

Automotive Electricity and Electronics

Automotive Systems

Modern Automotive Technology

Principles of Intelligent Automobiles