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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

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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

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begin your career in the challenging and ever-changing world of automotive technology.

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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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.

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

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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.

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,

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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 Scan Tool PID Diagnostics (Diagnostics Strategies of

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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

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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

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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

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WOT or wide open throttle values, vacuum readings, MAP to WOT
chats 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-

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PID test, sources of leaks, cranking values, test conclusion)

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