

Diagnostic Software

Johan Helmenkamp,Robert Bujila,Gavin Poludniowski

Life Savers: How the Use of Medical Diagnostic Software, as a Second Opinion to Your Doctor's Diagnosis, Can Save Your Life Ph. D. Tunde Alaofin, Tunde Alaofin Ph. D., 2014-04-10 Medical misdiagnosis is one of the biggest healthcare safety concerns in the United States today according to The Institute of Medicine. It is an immense and costly problem. Globally, misdiagnosis is responsible for millions of patient deaths every year; in the U.S., about 100,000 people die every year because of misdiagnosis (Leavitt & Leavitt, 2011). Misdiagnosis also affects the economy by raising the already high price of healthcare delivery. Life Savers is written to educate the public, as consumers of healthcare services, on how to become knowledgeable about their medical conditions through the use of diagnostic software. It empowers patients with necessary diagnostic tools to make sense of their symptoms and change the way they speak to their doctors forever. This book is a research-based study that provides empirical insights into how technology, particularly the use of diagnostic software, can improve medical outcomes for patients. The role of diagnostic software, as discussed in this book, is not meant to be replacement systems for the doctors, but rather a proposal of healthy partnerships between doctors, patients and software to complement their efforts to make quick and more accurate diagnoses of diseases in patients.

Computer-Based Diagnostic Systems Chris Price, 2012-12-06 This book addresses the issue of the best way to build effective knowledge-based systems for handling different types of diagnostic problems. It presents examples of different solutions to building effective diagnostic systems, and helps the reader to decide on an appropriate strategy for building a system. The book makes the material easy to understand and goes through the different options for constructing diagnostic systems.

Automotive Computerized and Electrical Diagnostics Technology Asoro Osasumwen, 2020-06-03 AUTOMOTIVE COMPUTERIZED AND ELECTRICAL DIAGNOSTICS TECHNOLOGY is a book that deals with the technology behind computerized and electrical diagnosis of systems and components in the vehicle. This book provides theories of the operations of the On-Board Diagnostic (OBD) protocol; which include the OBD I and OBD II protocol. This book is present a practical approach to automotive diagnostic technology, with step by step analysis. The book also entails the use of various kind of diagnostic tools for various diagnostics operations, the terminology involves in the diagnostic procedure and also the technology behinds it operation. The render step by step procedures of diagnostics operations which is compatible for all kind of diagnostic tool, with necessary advices on how to perform the operations. It also touches all kind of diagnostic tools and diagnostics operation available in the automotive technology industry. This book also cover aspect such as Electronic Control Unit (ECU) reprogramming and repairs, it involves reprogramming of various systems and components in the vehicle. Some key topics in this book involves: 1. AUTOMOTIVE DIAGNOSTICS TECHNOLOGY. 2. THE ON-BOARD DIAGNOSTICS (OBD I) SYSTEM/PROTOCOL. 3. HOW TO DIAGNOSE USING OBD I PROTOCOL. 4. ON-BOARD DIAGNOSTIC (OBD II) SYSTEM/PROTOCOL. 5. DIAGNOSTIC TOOLS/SCANNERS. 6. ELM327. 7. LIMITATIONS OF ELM327. 8. ELECTRONIC CONTROL UNIT (ECU) AND SENSORS. 9. CONTROLLER AREA NETWORK (CAN). 10. CHECK ENGINE LIGHT. 11. CODE READERS VERSUS DIAGNOSTIC SCANNERS. 12. CURRENT AND STORED FAULTS CODES. 13. SOFTWARE/APPLICATIONS FOR DIAGNOSTICS TOOLS. 14. CRACKED SOFTWARE VERSION AND CLONED SCAN TOOLS. 15. IMMOBILIZERS. 16. VIN- VEHICLE IDENTIFICATION NUMBER. 17. SCN- SOFTWARE CALIBRATION NUMBER coding. 18. MULTIPLEXING. 19. WARNING LIGHTS. 20. SENSORS AND APPLICATIONS. 21. APPLICATION OF SENSORS IN BRAKING AND STABILITY SYSTEM OF VEHICLES. 22. AUTOMOBILE DIAGNOSTIC TECHNOLOGY IN AFRICA (TAKING NIGERIA AS A CASE STUDY). 23. IMPORTANCE OF EVENT/HISTORY RECORDS IN AUTO DIAGNOSTICS TECHNOLOGY. 24. IMPORTANCE OF REGULAR DIAGNOSTICS OPERATION. 25. MECHATRONICS IN AUTOMOBILE DIAGNOSTICS TECHNOLOGY. 26. ELECTRIC VEHICLES. 27. CLASSIFICATION AND FEATURES OF DIAGNOSTIC TOOLS/SCANNERS. 28. GENERIC FAULT CODES. 29. CHOOSING A DIAGNOSTIC TOOL/SCANNER. 30. HOW TO USE A DIAGNOSTIC TOOL/SOFTWARE. 31. STEP BY STEP DIAGNOSTIC PROCEDURE. 32. REPROGRAMMING OF SYSTEMS AND COMPONENTS IN THE VEHICLE. 33. STEPS TO REPROGRAM THE AIRBAG SYSTEM. 34. IMMOBILIZER AND ECU REPROGRAMMING. 35. PIN GENERATION FOR REPROGRAMMING. 36. HOW TO REPROGRAM KEY TO THE IMMOBILIZER AND ECU. 37. HOW TO GENERATE PASSCODE OR PIN FROM THE MANUFACTURER OR SERVICE PROVIDER. 38. HOW DOES THE IMMOBILIZER SYSTEM WORKS. 39. HOW TO DETECT AND DEAL WITH FAULTS IN THE IMMOBILIZER SYSTEM. 40. VARIOUS FAULTS IN THE IMMOBILIZER SYSTEM AND SOLUTION. 41. LIMITATIONS OF SOME DIAGNOSTIC TOOLS ON SCANNING AND REPROGRAMMING THE IMMOBILIZER SYSTEM. 42. HOW TO REPROGRAM THE IMMOBILIZER SYSTEM. 43. HOW TO KNOW AN IMMOBILIZER UNIT IS FAULTY. 44. HOW TO KNOW A FAULTY ECU. 45. DIAGNOSTIC TOOL/SOFTWARE FOR ECU/IMMOBILIZER REPROGRAMMING. 46. ELECTRICAL ERASABLE PROGRAMMABLE READ ONLY MEMORY-EEPROM. 47. ECU MAPPING. 48. ECU TURNING. 49. POWERTRAIN CONTROL MODULE (PCM). 50. GENERIC DIAGNOSTIC TROUBLE CODES (DTC). 51. GENERIC DIAGNOSTIC TROUBLE CODES (DTC) WITH THEIR DESCRIPTION.

Automotive Scan Tool PID Diagnostics Mandy Concepcion, 2011-10-06 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 duty cycle, 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)

Operating Systems and Software Diagnostics Ramesh Bangia,Balvir Singh,2007

Agile Development of Diagnostic Knowledge Systems Joachim Baumeister,2004 The success of diagnostic knowledge systems has been proved over the last decades. Nowadays, intelligent systems are embedded in machines within various domains or are used in interaction with a user for solving problems. However, the development of a knowledge system is still a critical issue. Similarly to projects dealing with customized software at a highly innovative level a precise specification often cannot be given in advance. Moreover, necessary requirements of the knowledge system can be defined not until the project has been started or are changing during the development phase. This thesis motivates that classical, document-centered approaches cannot be applied in such a setting. We introduce an agile process model for developing diagnostic knowledge systems, mainly inspired by the ideas of the eXtreme Programming methodology known in software engineering. The engineering process is supported at a primary level by the introduction of knowledge containers, that define an organized view of knowledge contained in the system. The actual knowledge is acquired and formalized right from start, and the integration to runnable knowledge systems is done continuously in order to allow for an early and concrete feedback. The validity and maintainability of the collected knowledge is ensured by appropriate test methods and restructuring techniques, respectively. Additionally, we propose learning methods to support the knowledge acquisition process sufficiently. The process model and its activities are evaluated in two real life applications: in a medical and in an environmental project the benefits of the agile development are clearly demonstrated.

Novel Diagnostic Tools and Biomarkers in Hematologic Malignancies Mina Luqing Xu,Alejandro Gru,Julia T. Geyer,Andrew G. Evans,2022-03-15

I5/OS Diagnostic Tools for System Administrators Susan Powers,Andrei Matetic,Mark Roy,2008-01-01

Non-invasive diagnostic tools in the management of skin disorders Elisa Zavattaro,Paola Savoia,Federica Veronese,2023-10-03

Nanomaterials in Diagnostic Tools and Devices Suvardhan Kanchi,D. Sharma,2020-06-04 Nanomaterials in Diagnostic Tools and Devices provides a complete overview of the significance of nanomaterials in fabricating selective and performance enhanced nanodevices. It is an interdisciplinary reference that includes contributing subjects from nanomaterials, biosensors, materials science, biomedical instrumentation and medicinal chemistry. This book is authored by experts in the field of nanomaterial synthesis, modeling, and biosensor applications, and provides insight to readers working in various science fields on the latest advancements in smart and miniaturized nanodevices. These devices enable convenient real-time diagnosis of diseases at clinics rather than laboratories, and include implantable devices that cause less irritation and have improved functionality. Research in the field of nanomaterials is growing rapidly, creating a significant impact across different science disciplines and nanotechnology industries. This synthesis and modeling of nanomaterials has led to many technology breakthroughs and applications, especially in medical science. Provides a distinctive platform for the latest trends in the synthesis of smart nanomaterials for nanodevices in disease diagnostics Presents a broad range of advancements and applications of lateral-flow nanostrip for point-of-care applications Examines smart-phone based nanodevices for field-based diagnosis with accurate information Comprises more than 70 figures and illustrations that will help readers visualize and easily understand the role of nanodevices in the field of nanomedicine Serves as an ideal reference for those studying smart nanomaterials, biosensors, and nanodevices for real-time and in-situ clinical diagnosis and drug delivery

Advanced Characterization Techniques, Diagnostic Tools and Evaluation Methods in Heritage Science David M. Bastidas,Emilio Cano,2018-12-29 This book details the application of advanced characterisation techniques and diagnostic tools to heritage science, including the evaluation of heritage assets' condition, their preservation and restoration. It examines the use of electrochemical techniques in conservation science, with a particular focus on how to solve problems in taking on-site measurements. Specifically, it introduces readers to a new gel polymer (GPE) electrochemical cell developed by the authors for the characterisation of metallic heritage objects. Other techniques used to characterise and monitor reinforced concrete objects in more modern buildings are also covered, including non-destructive electrochemical techniques that allow steel corrosion to be assessed in these structures, and in those that are used to protect and repair such buildings. The usefulness of the NMR-Mouse nuclear magnetic resonance sensor in the assessment and preservation of softer heritage materials, such as wood, parchment, bone, and painted walls, is covered, as well as Infrared reflectography for examining paintings and laser cleaning for restoring them. The book introduces ultra-High Performance Liquid Chromatography (u-HPLC) with a diode-array (DAD) and mass–mass (MS-MS) quadruple time-of-flight spectroscopy (QTOF). This new technique can be applied to the analysis and identification of natural and synthetic organic pigments and its use is demonstrated in several case studies. This book provides a rigorous scientific grounding in the application of state-of-the-art techniques in heritage science and conservation, and offers a practical handbook for practitioners.

PEM Fuel Cell Diagnostic Tools Haijiang Wang,Xiao-Zi Yuan,Hui Li,2011-08-25 PEM Fuel Cell Diagnostic Tools presents various tools for diagnosing PEM fuel cells and stacks, including in situ and ex situ diagnostic tools, electrochemical techniques, and physical/chemical methods. The text outlines the principles, experimental implementation, data processing, and application of each technique, along with its capabilities and weaknesses. The book covers many diagnostics employed in the characterization and determination of fuel cell performance. It discusses commonly used conventional tools, such as cyclic voltammetry, electrochemical impedance spectroscopy, scanning electron microscopy, and transmission electron microscopy. It also examines special tools developed specifically for PEM fuel cells, including transparent cells, cathode discharge, and current mapping, as well as recent advanced tools for diagnosis, such as magnetic resonance imaging and atomic force microscopy. For clarity, the book splits these diagnostic methodologies into two parts—in situ and ex situ. To better understand the tools, PEM fuel cell testing is also discussed. Each self-contained chapter provides cross-references to other chapters. Written by international scientists active in PEM fuel cell research, this volume incorporates state-of-the-art technical advances in PEM fuel cell diagnosis. The diagnostic tools presented help readers to understand the physical and chemical phenomena involved in PEM fuel cells.

Functionalized Magnetic Nanosystems for Diagnostic Tools and Devices Kalim Deshmukh,Chaudhery Mustansar Hussain,2024-01-22 Functionalized Magnetic Nanosystems for Diagnostic Tools and Devices: Current and Emerging Research Trends explores the various aspects of functionalization of magnetic nanosystems in great detail, providing a thorough review of the associated benefits and challenges. The book begins with an overview of each key pillar for the design and application of functionalized magnetic nanosystems, from the synthesis, processing methods, and characterization techniques, to biocompatibility and toxicity considerations. Later chapters focus on specific nanomaterials and targeted biomedical applications, including point-of-care diagnosis, cancer therapy, medical imaging, biosensing and more. Importance is given to the safety considerations; environmental, legal and ethical implications, and commercial aspects of functionalized magnetic nanosystems - providing guidance relevant for advancing research into clinical practice. Provides an overview of fundamentals in the design and application of magnetic nanosystems, from synthesis and processing to functionalization and toxicity assessment Explores research in industry and clinical practice, providing insights into ethical, environmental, legal, and commercial aspects Covers a wide range of diagnostic applications for functionalized magnetic nanosystems, such as in medical imaging, drug detection, tissue engineering, and more

Improving Diagnosis in Health Care National Academies of Sciences, Engineering, and Medicine, Institute of Medicine, Board on Health Care Services, Committee on Diagnostic Error in Health Care, 2015-12-29 Getting the right diagnosis is a key aspect of health care - it provides an explanation of a patient's health problem and informs subsequent health care decisions. The diagnostic process is a complex, collaborative activity that involves clinical reasoning and information gathering to determine a patient's health problem. According to *Improving Diagnosis in Health Care*, diagnostic errors-inaccurate or delayed diagnoses-persist throughout all settings of care and continue to harm an unacceptable number of patients. It is likely that most people will experience at least one diagnostic error in their lifetime, sometimes with devastating consequences. Diagnostic errors may cause harm to patients by preventing or delaying appropriate treatment, providing unnecessary or harmful treatment, or resulting in psychological or financial repercussions. The committee concluded that improving the diagnostic process is not only possible, but also represents a moral, professional, and public health imperative. *Improving Diagnosis in Health Care*, a continuation of the landmark Institute of Medicine reports *To Err Is Human* (2000) and *Crossing the Quality Chasm* (2001), finds that diagnosis-and, in particular, the occurrence of diagnostic errors-has been largely unappreciated in efforts to improve the quality and safety of health care. Without a dedicated focus on improving diagnosis, diagnostic errors will likely worsen as the delivery of health care and the diagnostic process continue to increase in complexity. Just as the diagnostic process is a collaborative activity, improving diagnosis will require collaboration and a widespread commitment to change among health care professionals, health care organizations, patients and their families, researchers, and policy makers. The recommendations of *Improving Diagnosis in Health Care* contribute to the growing momentum for change in this crucial area of health care quality and safety.

Handbook of Diagnostic Classification Models Matthias von Davier, Young-Sun Lee, 2019-10-11 This handbook provides an overview of major developments around diagnostic classification models (DCMs) with regard to modeling, estimation, model checking, scoring, and applications. It brings together not only the current state of the art, but also the theoretical background and models developed for diagnostic classification. The handbook also offers applications and special topics and practical guidelines how to plan and conduct research studies with the help of DCMs. Commonly used models in educational measurement and psychometrics typically assume a single latent trait or at best a small number of latent variables that are aimed at describing individual differences in observed behavior. While this allows simple rankings of test takers along one or a few dimensions, it does not provide a detailed picture of strengths and weaknesses when assessing complex cognitive skills. DCMs, on the other hand, allow the evaluation of test taker performance relative to a potentially large number of skill domains. Most diagnostic models provide a binary mastery/non-mastery classification for each of the assumed test taker attributes representing these skill domains. Attribute profiles can be used for formative decisions as well as for summative purposes, for example in a multiple cut-off procedure that requires mastery on at least a certain subset of skills. The number of DCMs discussed in the literature and applied to a variety of assessment data has been increasing over the past decades, and their appeal to researchers and practitioners alike continues to grow. These models have been used in English language assessment, international large scale assessments, and for feedback for practice exams in preparation of college admission testing, just to name a few. Nowadays, technology-based assessments provide increasingly rich data on a multitude of skills and allow collection of data with respect to multiple types of behaviors. Diagnostic models can be understood as an ideal match for these types of data collections to provide more in-depth information about test taker skills and behavioral tendencies.

How To Use Automotive Diagnostic Scanners Tracy Martin, 2015-08-01 From hand-held, dedicated units to software that turns PCs and Palm Pilots into powerful diagnostic scanners, auto enthusiasts today have a variety of methods available to make use of on-board diagnostic systems. And not only can they be used to diagnose operational faults, they can be used as low-budget data acquisition systems and dynamometers, so you can maximize your vehicle's performance. Beginning with why scanners are needed to work effectively on modern cars, this book teaches you how to choose the right scanner for your application, how to use the tool, and what each code means. *How To Use Automotive Diagnostic Scanners* is illustrated with photos and diagrams to help you understand OBD-I and OBD-II systems (including CAN) and the scanners that read the information they record. Also included is a comprehensive list of codes and what they mean. From catalytic converters and O2 sensors to emissions and automotive detective work, this is the complete reference for keeping your vehicle EPA-compliant and on the road!

Automated Diagnostics and Analytics for Buildings Barney L. Capehart, Michael R Brambley, 2021-01-07 With the widespread availability of high-speed, high-capacity microprocessors and microcomputers with high-speed communication ability, and sophisticated energy analytics software, the technology to support deployment of automated diagnostics is now available, and the opportunity to apply automated fault detection and diagnostics to every system and piece of equipment in a facility, as well as for whole buildings, is imminent. The purpose of this book is to share information with a broad audience on the state of automated fault detection and diagnostics for buildings applications, the benefits of those applications, emerging diagnostic technology, examples of field deployments, the relationship to codes and standards, automated diagnostic tools presently available, guidance on how to use automated diagnostics, and related issues.

Diagnostic Radiology Physics with MATLAB® Johan Helmenkamp, Robert Bujila, Gavin Poludniowski, 2020-11-23 Imaging modalities in radiology produce ever-increasing amounts of data which need to be displayed, optimized, analyzed and archived: a big data as well as an image processing problem. Computer programming skills are rarely emphasized during the education and training of medical physicists, meaning that many individuals enter the workplace without the ability to efficiently solve many real-world clinical problems. This book provides a foundation for the teaching and learning of programming for medical physicists and other professions in the field of Radiology and offers valuable content for novices and more experienced readers alike. It focuses on providing readers with practical skills on how to implement MATLAB® as an everyday tool, rather than on solving academic and abstract physics problems. Further, it recognizes that MATLAB is only one tool in a medical physicist's toolkit and shows how it can be used as the glue to integrate other software and processes together. Yet, with great power comes great responsibility. The pitfalls to deploying your own software in a clinical environment are also clearly explained. This book is an ideal companion for all medical physicists and medical professionals looking to learn how to utilize MATLAB in their work. Features Encompasses a wide range of medical physics applications in diagnostic and interventional radiology Advances the skill of the reader by taking them through real-world practical examples and solutions with access to an online resource of example code The diverse examples of varying difficulty make the book suitable for readers from a variety of backgrounds and with different levels of programming experience.

In Vitro Diagnostic Industry in China Haibo Song, Lizhong Dai, 2024-01-09 This book systematically describes the achievements and current situation of in vitro diagnostic (IVD) industry in China. It consists of twelve parts, including the overview on the IVD industry in China in 2021, hot technologies and products of IVD industry, academic, technological and product development in the field of IVD, such as biochemical diagnosis, immune-diagnosis, point-of-care testing, molecular diagnosis, blood and body fluid diagnosis, microbial detection, laboratory assembly line, etc. In this second edition, the new contents added include the development of new coronavirus molecular diagnostic products, flight mass spectrometry, tandem mass spectrometry, tumor markers, ELISA immune reagents, autoimmune diagnostics, concomitant diagnosis, fecal and intestinal microecology detection, pathological diagnosis, raw materials for in vitro diagnostic reagents, standard substances and quality controls for in vitro diagnostic reagents, etc., making the content of the whole book more novel and rich. This book is compiled by an editorial committee composed of well-known entrepreneurs, experts and professors in IVD industry in China. It is a reference book

for practitioners of IVD industry, medical laboratory and medical staffs all over the world.

Wavefile AutoPro Software Progressive Diagnostics,1998-07-01 WaveFile AutoPro CD-ROM helps both the instructor and the student to get the most out of their Automotive Lab Scopes, Scan-Tools, or other diagnostic tools with its interactive computer-based training, extensive waveform library, on-line diagnostic and repair procedures, and full waveform transfers to and from your scope, scan tool, or other diagnostic tool. WaveFile AutoPro provides you with instant information on every aspect of automotive electronic troubleshooting. The powerful WaveFile AutoPro™ communications program works with most popular automotive Lab Scopes, Scan Tools, and other instruments: Snap-On Vantage, Counselor II, Snap-On Scanner, Sun LS200, MAC ET2020, ET2010, KalSCOPE 550A, 565A, & the new 575, OTC Vision, Matco Insight, Vetronix Mastertech, Tektronix THM 500 series, 222/224, and 710/720 series, Fluke 93-105 series (incl. 98) & more! In addition, the program comes with an automated Instructor's Guide for classroom use or self-study--47 hours of interactive computer-based training with self-paced interactive tutorial on 02 waveform analysis. (KEY WORDS:ENGINE PERFORMANCE, ENGINE REPAIR)

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Diagnostic Software Introduction

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