

autodata cd3

autodata cd3 is a specialized software solution widely used in the automotive industry for vehicle diagnostics, repair, and maintenance information. It represents an advanced toolset designed to provide technicians, mechanics, and automotive professionals with accurate, detailed, and up-to-date data on various vehicle systems and components. This article explores the features, benefits, and applications of autodata cd3, highlighting its importance in streamlining vehicle servicing processes and enhancing productivity. Additionally, the discussion covers compatibility aspects, user interface design, and how autodata cd3 integrates with modern automotive technologies. Readers will gain a comprehensive understanding of why autodata cd3 is considered a critical resource in automotive workshops and repair centers.

- Overview of autodata cd3
- Key Features and Functionalities
- Benefits of Using autodata cd3
- Compatibility and System Requirements
- Integration with Automotive Technologies
- User Interface and Accessibility
- Applications in Automotive Repair and Maintenance

Overview of autodata cd3

autodata cd3 is a comprehensive automotive data software platform that offers detailed vehicle repair information and diagnostic procedures. It is designed to assist vehicle technicians by consolidating service manuals, wiring diagrams, fault codes, and maintenance schedules into one easily accessible database. The platform covers a wide range of vehicle makes and models, ensuring that users can find relevant information for almost any car or light commercial vehicle. The "cd3" designation often refers to a particular version or edition of the Autodata software, emphasizing its enhanced data accuracy and expanded library. With the increasing complexity of modern vehicles, autodata cd3's role in providing precise technical data has become indispensable.

History and Development

The development of autodata cd3 stems from the need to digitize and centralize automotive repair information, which traditionally existed in paper manuals and fragmented sources. Over the years, Autodata has evolved into a digital platform that leverages technology to update and distribute data efficiently. The cd3 version builds upon earlier releases by incorporating more detailed diagnostics, updated software interfaces, and expanded vehicle coverage. Continuous improvements ensure that autodata cd3 stays relevant with the latest automotive innovations and industry standards.

Key Features and Functionalities

autodata cd3 offers a range of features tailored to meet the demands of automotive professionals. These functionalities facilitate accurate diagnosis, efficient repairs, and comprehensive vehicle maintenance.

Diagnostic Trouble Codes (DTC) Lookup

The software includes an extensive database of Diagnostic Trouble Codes (DTCs), allowing technicians to identify and interpret fault codes generated by a vehicle's onboard computer systems. This feature accelerates problem identification and facilitates targeted repairs.

Repair Procedures and Service Schedules

autodata cd3 provides step-by-step repair instructions and detailed service schedules for various vehicle models. These procedures cover mechanical, electrical, and electronic systems, ensuring thorough guidance for maintenance tasks.

Wiring Diagrams and Component Locations

Access to precise wiring diagrams and component layouts enables technicians to troubleshoot electrical issues with confidence. This feature supports complex diagnostics by illustrating circuit paths and connector pinouts clearly.

Technical Specifications and Vehicle Data

The platform supplies essential technical data, including torque settings, fluid capacities, and engine specifications. This information is critical for ensuring repairs comply with manufacturer standards and maintain vehicle performance.

Regular Updates and Data Accuracy

One of the core strengths of autodata cd3 is its commitment to data accuracy and regular updates. The software is frequently refreshed to incorporate new vehicle models, revised repair techniques, and updated industry regulations.

Benefits of Using autodata cd3

Utilizing autodata cd3 in automotive workshops offers numerous advantages that improve service quality and operational efficiency.

- **Time Efficiency:** Quick access to repair data reduces diagnostic time and accelerates maintenance processes.
- **Accuracy in Repairs:** Detailed instructions minimize the risk of errors during vehicle servicing.
- **Comprehensive Coverage:** Supports a vast array of vehicle makes and models, ensuring broad usability.
- **Cost Savings:** Reduces the need for physical manuals and multiple software tools, consolidating information in one platform.
- **Enhanced Technician Confidence:** Reliable data empowers mechanics to perform complex repairs with assurance.

Compatibility and System Requirements

Understanding the technical prerequisites for running autodata cd3 is vital for seamless integration into automotive service environments.

Supported Operating Systems

autodata cd3 is typically compatible with major operating systems such as Windows, including Windows 10 and 11 versions. Certain editions may also offer support for macOS or web-based access through browsers, depending on the license and deployment model.

Hardware Requirements

The software requires a stable computer setup with sufficient processing power, memory, and storage to handle extensive databases and graphical content such as wiring diagrams. Recommended specifications often include a

multi-core processor, at least 8GB RAM, and solid-state drives for faster data retrieval.

Licensing and Access Models

Users can access autodata cd3 via subscription licenses, which may be offered as standalone software or integrated solutions. Some versions provide cloud-based access, enabling remote usage and automatic updates without manual installation.

Integration with Automotive Technologies

autodata cd3 complements modern automotive diagnostic tools and technologies to enhance workshop capabilities.

Compatibility with Diagnostic Scanners

The software often integrates with OBD-II and manufacturer-specific diagnostic scanners, allowing real-time data reading and fault analysis alongside manual repair instructions. This integration streamlines troubleshooting workflows.

Support for Advanced Vehicle Systems

With the rise of hybrid, electric, and connected vehicles, autodata cd3 includes data on advanced powertrains, battery systems, and telematics. This ensures technicians can service the latest automotive technologies effectively.

Telematics and Remote Diagnostics

Some editions of autodata cd3 support telematics data interpretation and remote diagnostic capabilities, helping workshops address issues faster and prepare for sophisticated vehicle servicing demands.

User Interface and Accessibility

Ease of use and accessibility are critical factors that define the usability of autodata cd3 in busy automotive environments.

Intuitive Navigation

The platform features an intuitive interface that allows users to quickly locate relevant information through categorized menus, search functions, and filters. This design reduces learning curves and improves productivity.

Multi-Language Support

To accommodate a global user base, autodata cd3 offers multi-language options, enabling technicians to use the software in their preferred language, which enhances comprehension and reduces errors.

Offline Access and Mobility

Depending on the licensing, autodata cd3 can be used offline or through mobile devices, granting technicians the flexibility to access critical data in various workshop conditions without reliance on continuous internet connectivity.

Applications in Automotive Repair and Maintenance

autodata cd3 serves as a crucial resource across multiple facets of vehicle servicing, from routine maintenance to complex repairs.

Routine Maintenance Tasks

Technicians rely on autodata cd3 for standard service information such as oil changes, brake inspections, and fluid top-ups, ensuring adherence to manufacturer-recommended intervals and procedures.

Complex Diagnostics and Repairs

For challenging repairs involving engine management systems, transmission diagnostics, or electrical faults, autodata cd3 provides detailed schematics and troubleshooting guides that support accurate fault identification.

Training and Skill Development

Automotive education centers and workshops use autodata cd3 as a training tool to enhance technicians' knowledge of vehicle systems and repair methodologies, promoting continuous professional development.

Fleet Management Support

Fleet operators utilize autodata cd3 to maintain diverse vehicle inventories efficiently, ensuring scheduled maintenance compliance and minimizing downtime through timely repairs.

Frequently Asked Questions

What is Autodata CD3?

Autodata CD3 is a comprehensive automotive diagnostics and repair software used by professionals to access vehicle technical data, wiring diagrams, service schedules, and repair procedures.

Which vehicles are covered by Autodata CD3?

Autodata CD3 covers a wide range of vehicles including cars, motorcycles, light commercial vehicles, and heavy trucks from various manufacturers worldwide.

How often is Autodata CD3 updated?

Autodata CD3 is typically updated monthly to include the latest technical information, new vehicle models, and revisions to existing data.

Can Autodata CD3 be used offline?

Yes, Autodata CD3 allows users to download data for offline access, making it convenient for workshops without constant internet connectivity.

What are the system requirements for installing Autodata CD3?

Autodata CD3 requires a Windows-based PC with at least 4GB RAM, 2GHz processor, 500MB free disk space, and an internet connection for activation and updates.

Is Autodata CD3 suitable for DIY car repairs?

While primarily designed for professional mechanics, Autodata CD3 can also be useful for experienced DIY enthusiasts due to its detailed repair instructions and diagnostics.

How does Autodata CD3 compare to other automotive

diagnostic tools?

Autodata CD3 stands out for its extensive vehicle coverage, regularly updated data, and comprehensive service and repair manuals, making it a preferred choice among automotive professionals.

Does Autodata CD3 include wiring diagrams?

Yes, Autodata CD3 provides detailed wiring diagrams for a wide range of vehicles, helping technicians diagnose electrical issues accurately.

How can I get support for Autodata CD3?

Support for Autodata CD3 is available through the official Autodata website, including user guides, FAQs, customer service contact, and technical assistance.

Additional Resources

1. *Mastering Autodata CD3: A Comprehensive Guide*

This book offers an in-depth exploration of Autodata CD3, detailing its features and functionalities. It is ideal for beginners and advanced users alike, providing step-by-step instructions for vehicle diagnostics, repair procedures, and data management. Readers will gain confidence in utilizing Autodata CD3 to enhance automotive workshop efficiency.

2. *Autodata CD3 for Automotive Technicians*

Designed specifically for automotive professionals, this guide focuses on practical applications of Autodata CD3 in everyday vehicle maintenance and repair. It covers diagnostic tools, wiring diagrams, and service information that streamline troubleshooting. The book also includes case studies that demonstrate real-world problem-solving techniques.

3. *Efficient Workshop Management with Autodata CD3*

This book explores how Autodata CD3 can be integrated into workshop management systems to improve workflow and customer service. Topics include inventory control, job scheduling, and reporting using Autodata's software tools. It is an essential resource for workshop managers aiming to optimize operations through technology.

4. *Autodata CD3: Unlocking Advanced Diagnostic Techniques*

Focusing on the diagnostic capabilities of Autodata CD3, this title delves into complex vehicle systems and electronic controls. It explains how to interpret diagnostic trouble codes and use Autodata's data to perform accurate fault-finding. The book is beneficial for technicians seeking to upgrade their diagnostic skills.

5. *The Complete Autodata CD3 Repair Manual*

This comprehensive manual provides detailed repair procedures for a wide

range of vehicle makes and models covered by Autodata CD3. It includes exploded diagrams, torque settings, and step-by-step instructions to ensure precision in repairs. The book is a valuable reference for mechanics and service engineers.

6. Getting Started with Autodata CD3 Software

A beginner-friendly introduction to installing and navigating the Autodata CD3 software, this book guides users through initial setup and basic functions. It covers searching for vehicle data, accessing service schedules, and using the software's interface effectively. Perfect for new users aiming to get up to speed quickly.

7. Autodata CD3 Electrical Wiring and Schematics

This specialized book focuses on the electrical wiring diagrams and schematics available within Autodata CD3. It teaches readers how to interpret complex wiring layouts and identify circuit faults. Automotive electricians and technicians will find it indispensable for electrical troubleshooting.

8. Optimizing Vehicle Diagnostics with Autodata CD3

This book emphasizes strategies to maximize the diagnostic potential of Autodata CD3 in modern vehicles. It discusses integration with diagnostic tools, software updates, and data accuracy. Readers will learn how to improve diagnostic turnaround times and reduce errors in vehicle servicing.

9. Autodata CD3 Updates and Advanced Features

Keeping up with the latest versions and features of Autodata CD3, this book reviews software updates, new functionalities, and enhanced data sets. It also explores tips for customizing the software to fit specific workshop needs. Ideal for users looking to stay current with evolving automotive diagnostic technology.

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Autodata CD3: The Definitive Guide to Automotive Repair Information

Ebook Title: Mastering Autodata CD3: A Comprehensive Guide for Mechanics and Enthusiasts

Outline:

Introduction: What is Autodata CD3 and why is it important? A brief history and overview.

Chapter 1: Navigating the Autodata CD3 Interface: A step-by-step guide to using the software, including searching, filtering, and interpreting data. Screenshots included.

Chapter 2: Accessing and Understanding Vehicle Data: Detailed explanation of the types of information available (repair times, diagrams, fault codes, etc.) and how to effectively utilize them. Examples of real-world application.

Chapter 3: Troubleshooting with Autodata CD3: Practical examples demonstrating how to use Autodata CD3 to diagnose and resolve common automotive issues. Case studies included.

Chapter 4: Advanced Features and Techniques: Exploration of more advanced features within Autodata CD3, such as wiring diagrams, technical bulletins, and service schedules. Tips and tricks for maximizing efficiency.

Chapter 5: Staying Updated and Maintaining Your Subscription: Information on software updates, subscription renewal, and troubleshooting common technical issues.

Conclusion: Recap of key takeaways and future trends in automotive repair information technology.

Autodata CD3: The Definitive Guide to Automotive Repair Information

Introduction: Understanding the Power of Autodata CD3

Autodata CD3 (or potentially a later version depending on the current release) represents a cornerstone of modern automotive repair information. For mechanics, technicians, and even serious car enthusiasts, access to accurate and comprehensive vehicle data is crucial for efficient and effective repairs. Autodata CD3 provides this access, offering a vast database of technical specifications, repair procedures, wiring diagrams, and fault code information covering a wide range of vehicle makes and models. This guide delves deep into the capabilities of Autodata CD3, providing a practical and comprehensive understanding of its features and applications. Understanding Autodata CD3 isn't just about knowing where to find information; it's about knowing how to interpret and utilize that information to solve complex automotive problems. This ebook equips you with the knowledge to do just that.

Chapter 1: Mastering the Autodata CD3 Interface – Your Gateway to Information

Navigating any software effectively is the first step to success. Autodata CD3, while powerful, requires a degree of understanding to unlock its full potential. This chapter will take you on a journey through the software's interface, focusing on key aspects:

Searching for Vehicles: Learn various search methods, from VIN number lookups to searching by make, model, year, and engine code. Understand the importance of accuracy in this initial step.

Filtering Results: Master the art of filtering search results to narrow down the information you need. Learn how to refine your search based on specific parameters, such as system type (brakes, engine, etc.) or repair type.

Interpreting Data: Understanding the structure and presentation of information is critical. This section explains the layout of repair times, diagrams, and other critical data points, highlighting potentially confusing elements. We'll look at examples of how to interpret various data formats.

Utilizing the Help System: Autodata CD3 often includes a built-in help system. Learning how to use it effectively can save you valuable time and frustration.

Chapter 2: Unlocking Vehicle Data – The Heart of Autodata CD3

Autodata CD3's strength lies in its vast library of vehicle data. This chapter explores the different types of information accessible within the software:

Repair Times: Accurate labor time estimates are vital for accurate quoting and efficient workshop management. We'll examine how to interpret these times and the factors that might influence them.

Diagrams: From detailed wiring diagrams to component layouts, visual aids are invaluable in understanding complex systems. We'll analyze how to effectively use these diagrams to troubleshoot issues.

Fault Codes (DTCs): Decoding Diagnostic Trouble Codes is a central part of modern diagnostics. This section will teach you how to use Autodata CD3 to quickly identify and understand the meaning of these codes.

Technical Bulletins (TBs): Stay informed about manufacturer-issued updates and recalls. We'll discuss the importance of staying current with these bulletins and how to find them within Autodata CD3.

Service Schedules: Learn how to access and interpret manufacturer-recommended service schedules to ensure vehicles are maintained according to best practice.

Chapter 3: Troubleshooting with Autodata CD3 – Solving Real-World Problems

This chapter moves beyond theory and into practical application. We'll walk you through several case studies illustrating how Autodata CD3 can be used to diagnose and resolve common automotive issues:

Case Study 1: Diagnosing an Intermittent Engine Misfire: We'll demonstrate how to use fault codes, sensor data, and wiring diagrams to identify the root cause of a misfire.

Case Study 2: Troubleshooting a Brake System Malfunction: Learn to use Autodata CD3 to isolate a brake problem, using diagrams and specifications to guide your repair.

Case Study 3: Repairing an Electrical Fault: Explore how wiring diagrams and component specifications can assist in troubleshooting and repairing complex electrical issues.

General Troubleshooting Strategies: Beyond specific case studies, we'll explore general strategies for using Autodata CD3 to tackle a wide range of automotive problems effectively.

Chapter 4: Advanced Features and Techniques – Maximizing Your Efficiency

This chapter unlocks the advanced features within Autodata CD3, empowering you with even greater efficiency and diagnostic capabilities:

Detailed Wiring Diagrams: Learn how to effectively navigate complex wiring diagrams and identify specific circuits and components.

Component Locations: Understand how to quickly identify the location of components within the vehicle, saving valuable time during repairs.

Understanding System Interactions: Discover how Autodata CD3 can help you understand how different vehicle systems interact with each other, providing a more holistic approach to diagnostics.

Utilizing Technical Bulletins (TBs): Learn advanced techniques for utilizing Technical Bulletins to resolve complex or intermittent issues.

Tips and Tricks: Learn from experienced users and uncover hidden features and shortcuts to optimize your workflow with Autodata CD3.

Chapter 5: Staying Updated and Maintaining Your Subscription – Long-Term Success

Maintaining a current subscription and staying updated is crucial for access to the most accurate and relevant information. This chapter covers:

Software Updates: Learn how to check for and install software updates to maintain access to the latest vehicle data and feature improvements.

Subscription Renewal: Understand the process of renewing your subscription and the benefits of maintaining continuous access.

Troubleshooting Technical Issues: Learn how to identify and resolve common technical issues that might arise during use.

Customer Support: Discover how to effectively utilize customer support resources provided by Autodata.

Conclusion: The Future of Automotive Repair Information

Autodata CD3 is more than just a database; it's a powerful tool that empowers mechanics and enthusiasts to diagnose and repair vehicles effectively. This guide has provided a comprehensive overview of its capabilities, equipping you to leverage its features for efficient and accurate repairs. As technology continues to evolve within the automotive industry, access to up-to-date, reliable information will remain critical.

FAQs:

1. What is the difference between Autodata CD3 and other automotive repair software? Autodata CD3 is known for its comprehensive database, ease of use, and regular updates. Other software may offer similar features but might lack the depth of coverage or user-friendliness.
2. How often is Autodata CD3 updated? Updates are released regularly to incorporate new vehicle models, technical bulletins, and repair information. Check the Autodata website for the latest release information.
3. Is Autodata CD3 compatible with all vehicles? While it covers a wide range of vehicles, there might be some older or less common models not included. Check their database coverage before purchasing.
4. Can I use Autodata CD3 offline? Yes, Autodata CD3 is designed to work offline, providing access to information even without an internet connection.
5. What kind of computer do I need to run Autodata CD3? System requirements will be specified by Autodata – check their website for the most up-to-date information.

6. How much does an Autodata CD3 subscription cost? Pricing varies depending on the length of the subscription and the specific features included. Check Autodata's website for current pricing.
7. Is there customer support available for Autodata CD3? Yes, Autodata provides customer support channels including phone, email, and potentially online help resources.
8. What types of diagrams are included in Autodata CD3? Autodata CD3 generally includes wiring diagrams, component diagrams, and system diagrams depending on the vehicle.
9. Can Autodata CD3 help with body repair information? While Autodata focuses on mechanical and electrical systems, some versions may include limited body repair information. Check the specifics of your version.

Related Articles:

1. Autodata CD3 vs. Mitchell 1: A Detailed Comparison: A head-to-head comparison of these two leading automotive repair information providers.
2. Top 10 Tips and Tricks for Autodata CD3: Advanced strategies and shortcuts to maximize your efficiency with Autodata CD3.
3. Troubleshooting Common Autodata CD3 Errors: A guide to resolving common technical issues and errors encountered while using the software.
4. Understanding Automotive Fault Codes (DTCs) with Autodata CD3: A comprehensive guide to interpreting and using fault codes effectively.
5. Using Autodata CD3 to Diagnose Electrical Issues: A practical guide on utilizing Autodata CD3 for diagnosing and repairing complex electrical problems.
6. Autodata CD3 for Beginners: A Step-by-Step Tutorial: An introductory guide for those new to Autodata CD3.
7. The Importance of Regularly Updating Your Autodata CD3 Subscription: Highlighting the benefits of maintaining a current subscription for access to the latest information.
8. Autodata CD3 and the Modern Mechanic: How It's Changing the Industry: Exploring the impact of Autodata CD3 and similar software on the automotive repair industry.
9. Using Autodata CD3 for Preventative Maintenance: Explaining how to use the software for effective preventative maintenance scheduling.

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valuable insights and practical advice for tapping into highly lucrative global markets. You'll learn every aspect of the startup process, including: Choosing the most profitable goods to buy and sell Setting up and maintaining a trade route Using the internet to simplify your transactions How the government can help you find products and customers Essential trade law information to keep your business in compliance How to choose a customs broker The latest government policies Proven methods for finding contacts in the United States and abroad Plus, you'll gain the tricks of the trade from successful importers/exporters and hundreds of valuable resources help you become a player in the lucrative world of international exchange.

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autodata cd3: Automotive Computer Network Repair Mandy Concepcion, Automotive Computer Network Repair (Diagnostic Strategies of Modern Automotive Systems) By Mandy Concepcion In this book we will cover the intricacies of automotive inter-module communication systems or networks. The scope of this section will also go beyond the normal needs of an automotive technician. Hence, this will probably be the most difficult part of this series to comprehend. Be patient and open minded. Always give yourself time to absorb the knowledge and do not be discouraged. Special emphasis will be placed on the CAN system (Controller Area Network), since it

is now the standard. CAN is one of the 9 OBD-2 protocols. A protocol is an agreement on communications interchange. It is in essence a computer communication language and specifies signaling, wiring, size of cables used, who controls the network and voltage levels. Various protocols were used in the past, some proprietary and some generic such as ISO 9141 and SAE 1850 VPW, but the standard is now the CAN protocol. Virtually all vehicle networks now talk to each other through the CAN protocol. It is now common place to see the seat belt, SRS-Airbag, transmission, ABS-Brakes, engine and radio modules or computer talking to each other through the network. Ever wondered why your radio volume goes up when you accelerate the vehicle? That's the engine computer or module telling the radio to raise the volume due to a higher RPM and hence higher ambient noise. It is also common to see a non-shifting transmission due to a faulty network and the issue not being related to the transmission at all. Hopefully this book will shed some light on the operation and knowledge needed to tackle automotive networks in today's vehicles..... Enjoy.

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autodata cd3: Materials for Automobile Bodies Geoffrey Davies, 2012-04-04 The selection of automobile body materials is fundamental to the choice of fabrication method, and the characteristics and performance of the final vehicle or component. The factors behind these choices comprise some of the key technological and design issues facing automotive engineers today. Materials for Automobile Bodies brings together a wealth of information on automotive materials and material technologies to provide designers and vehicle body engineers with both a solid grounding and a quick reference to inform their material choices. Coverage includes materials processing, formability, welding and joining, anti-corrosion technologies, plus a comprehensive consideration of the implications of materials selection on these processes. Dealing with the whole assembly process from raw material to production, right through to recycling at the end of a vehicle's life, this book is the essential resource for practising engineers, designers, analysts and students involved in the design and specification of motor vehicle bodies and components. - Up-to-date detailed information on contemporary autobody materials, incorporating the explanation often lacking in other data-focused resources - Includes informative and insightful case studies on

the materials and processing choices of major OEMs, including Honda, BMW and Audi - Now with more on geographical supply and usage trends, environmental concerns and end of life disassembly considerations, and how these affect selection choices

autodata cd3: Handbook of Automotive Human Factors Motoyuki Akamatsu, 2019-06-14

Thanks to advances in computer technology in the last twenty years, navigation system, cabin environment control, ACC, advanced driver assistance system (ADAS) and automated driving have become a part of the automobile experience. Improvement in technology enables us to design these with greater flexibility and provide greater value to the driver (human centered design). To achieve this, research is required by laboratories, automobile and auto parts manufacturers. Although there has been a lot of effort in human factors research and development, starting from basic research to product development, the knowledge and experience has not been integrated optimally. The aim of this book is to collect and review the information for researchers, designers and developers to learn and apply them for further research and development of human centered design of future automotive technologies. Automotive human factors include psychological, physiological, mathematical, engineering and even sociological aspects. This book offers valuable insights to applying the right approach in the right place.

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Marcello Chiaberge, 2011-01-08 In the last few years the automobile design process is required to become more responsible and responsibly related to environmental needs. Basing the automotive design not only on the appearance, the visual appearance of the vehicle needs to be thought together and deeply integrated with the power developed by the engine. The purpose of this book is to try to present the new technologies development scenario, and not to give any indication about the direction that should be given to the research in this complex and multi-disciplinary challenging field.

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autodata cd3: Advanced Microsystems for Automotive Applications 99 Detlef E. Ricken, Wolfgang Gessner, 2013-11-11 Microsystems are an important success factor in the automobile industry. In order to fulfil the customers requests for safety convenience and vehicle economy, and to satisfy environmental requirements, microsystems are becoming indispensable. Thus a large number of microsystem applications came into the discussion. With the international conference AMAA '99, VDI/VDE-IT provides a platform for the discussion of all MST relevant components for automotive applications. The conference proceedings gather the papers by authors from automobile suppliers and manufacturers.