Automotive Electronics

Understanding Automotive Electronics

Sixth Edition

William B. Ribbens

In today's cars, the electronic systems are more complex than simple electrical wiring. They now affect almost every operating aspect of the automobile. This sixth edition of Understanding Automotive Electronics covers the most recent technological advances in operation and troubleshooting of electronic systems and components, including low emission standards, on board diagnostics and communications, digital instrumentation, and digital engine control. This is a practical text, suitable for the automotive technician, student, enthusiast, or professional who wants to upgrade his or her background in electronic systems found in the automobile.

The basis for understanding the functions of automotive electronics systems and subsystems is a good grasp of mechanical auto operation. Chapter 1 covers the basic structures and systems of late-1990's autos. Chapters 2, 3, and 4 provide a foundation in electronic components, subsystems, and systems with emphasis on digital devices including microprocessors and microcontrollers. All major concepts are illustrated with specific exemplary automotive applications.

Chapters 5 through 10 cover specific automative systems and subsystems including powertrain, suspension, broking, steering, and various aspects of vehicle motion control as well as instrumentation, navigation, telematics, occupant safety, and diagnosis. Recent developments in hybrid vehicles, dual voltage electrical bases, and advanced cruise control are also covered.

Chapter 11 discusses possible future trends in automotive electronic technology including variable valve timing, stability augmentation, and advanced telematics technology and application.

- Extensive revision of the popular fifth edition
- Overviews of basic automotive and electronic systems.
- Electronic system, subsystem, and component operation, analysis, and problem diagnosis
- Covers recent low exhaust emission technology

William B. Ribbens is Professor of Electrical Engineering and Computer Science and former Director of the Vehicular Electronics Laboratory at the University of Michigan in Ann Arbor.

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higher education where students need to gain an understanding of current technology It is also an ideal resource for anyone seeking to update their own knowledge in this fast moving field Although they may do very different jobs all sophisticated automobile electronic control systems work in fundamentally the same way and comprise a microcomputer system that communicates with the outside world via various sensors and actuators The emphasis is very much on the building up a good knowledge base in electrical and electronic principles and guiding the reader through the fundamentals of microprocessor systems and their control strategies Vehicle specific applications will then be illustrated through case studies drawn from a wide variety of different manufacturer's products Simple analogies to the everyday world are presented wherever possible and jargon is avoided With a good grounding in microprocessor systems and exposure to a broad range of example applications the reader should be able to understand the functioning of new and different automotive electronic systems as they appear on the market Eric Chowanietz is a Senior Lecturer in the dept of Electrical and Electronics Engineering at De Montfort University He has industrial links with Rover Philips Electronics the Transport Road Research Lab General Motors ATP Electronics and Delco Electronics amongst others Understanding Artificial Intelligence Henry C. Mishkoff, Dan Shafer,1988 **Automotive Engineering** ,1992 **Automotive Electrical and Electronics** AK Babu, 2016-06-24 Aim is to provide a broad understanding of the many systems and component parts that constitute the vehicle electrical and electronics in a detailed way The book should also be a valuable source of information and reference The book provides clear explanation of vehicle electrical and electronic components and systems with unique illustrations which should be of value both to the students and to the experienced faculty members Each chapter takes the reader systematically through the details of each component system Key topics are emphasized and are reinforced by numerous illustrations Automotive Electronics Handbook Ronald K. Jurgen, 1999 This second edition of the widely sold title contains new and updated chapters on areas such as safety features It also includes new sections on adding electronic intelligence to automotive features Motor Industry Magazine ,2007-02 *Understanding Digital Electronics* Eugene W. McWhorter, 1978 This book clearly explains a wide range of digital electronic devices circuits and systems what they are what they do and how they can be used by making reference to a common digital system the handheld calculator Radio-electronics, 1985 <u>Understanding Communications Systems</u> Don L. Cannon, 1980

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