

Understanding Automotive Electronics

S i x t h E d i t i o n

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 automotive systems and subsystems including powertrain, suspension, braking, 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 buses, 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
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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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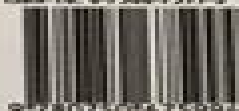
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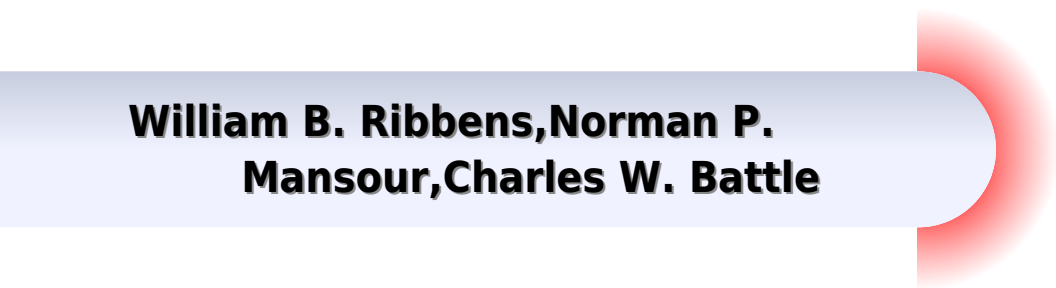
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