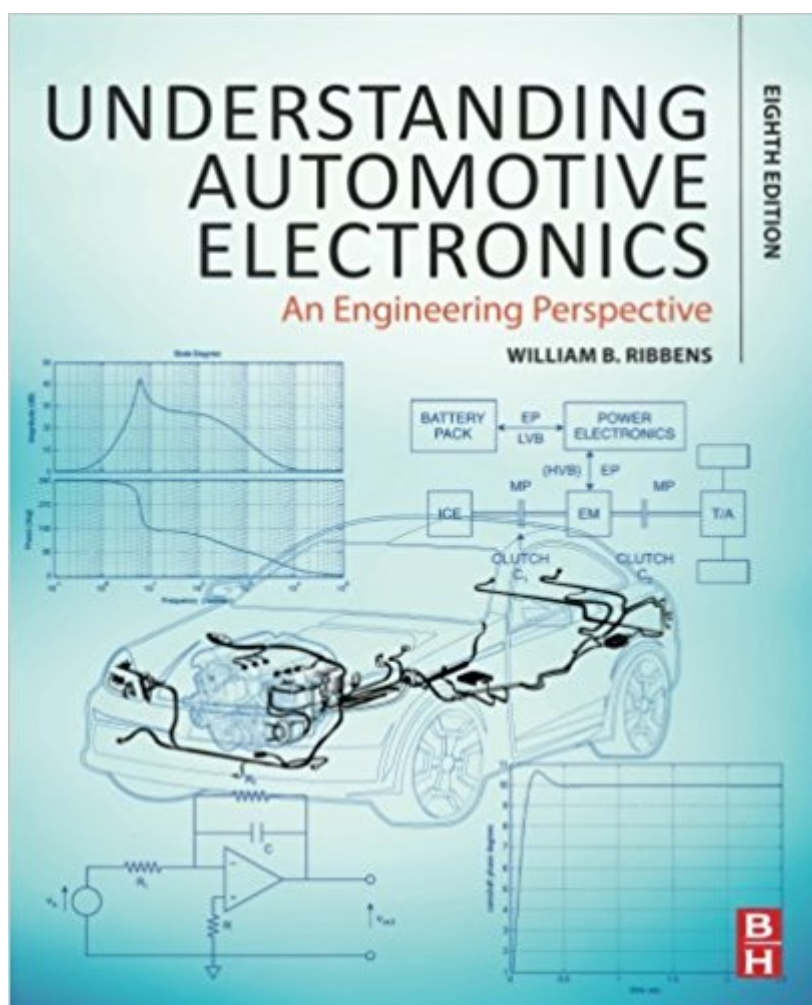


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Understanding Automotive Electronics, Eighth Edition: An Engineering Perspective



Synopsis

Understanding Automotive Electronics: An Engineering Perspective, Eighth Edition, is written with an engineering perspective that includes mathematical models, providing a qualitative explanation of each subject that requires no mathematical background. Thoroughly updated throughout, this new edition moves away from introductory mechanic-level electronics to cover hot topics such as automotive camera systems and typical electronic camera systems, hybrid control, AUTOSAR (AUTomotive Open System ARchitecture) and vehicle networks. Comprehensive coverage of automotive electronics and control, including the latest technology in telematics, active safety, entertainment, and communications are also included. This book is the first port of call for control engineers, system engineers, and electronic engineers in automotive who need a thorough grounding in automotive electronics and control. From simple automotive electronic circuits, to the latest developments in telematics, active safety, entertainment, and communications, the book is also an ideal resource for more senior automotive engineers without a background in electronics or control who to work in the area or supervise specialists. Presents the full range of electrical/electronic theory that is applicable to modern automotive technology at a level progressing from basic theory and science, to detailed application to all major automotive systems and components. Features circuit diagrams that are representative of actual circuits used to perform relevant functions in automotive electronic systems. Discusses how the AUTOSAR middleware platform integrates with the low level electronics of automotive systems. Provides a thorough understanding of automotive electronic technology at a level that is helpful to students, technicians, and industry engineers.

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In today's cars, the electronics systems are more complex than simple electrical wiring; they now affect almost every operating aspect of the automobile. The basis for understanding the functions of automotive electronics systems and subsystems is a good grasp of mechanical auto operation.

--This text refers to an out of print or unavailable edition of this title.

Professor Ribbens received his B.S.E.E. degree in 1960, his M.S.E.E. degree in 1961, and his Ph.D. degree in 1965, all from the University of Michigan. From 1962-69, he was an assistant research engineer, associate research engineer, and research engineer. He was appointed assistant professor in 1969 and was promoted to associate professor in 1972 and professor in 1993. He was appointed professor of aerospace engineering in 1995. His research most recently has focused on electronic systems and devices that are applicable to all vehicles. His particular emphasis has been on engine control applications, mathematical models for drive-train systems, computer-assisted diagnostics for electronically controlled engines, and failure detection systems. His work in these areas has substantially advanced the art of automotive electronics, and he is recognized as a world leader in this area. He served on the Hitachi Science Board, a distinction given to few U.S. academics. He was also a visiting scientist at the Lawrence Livermore Laboratory, General Motors Technical Center, and the Technical University of Berlin.

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