



# Understanding Automotive Electronics: An Engineering Perspective

By William Ribbens

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## Understanding Automotive Electronics: An Engineering Perspective By William Ribbens

*Understanding Automotive Electronics* is the first port of call for control engineers, system engineers and electronic engineers in the automotive industry needing 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 needing to work in the area or supervise specialists.

Thoroughly updated throughout, this new edition moves away from introductory mechanic-level electronics to cover more hot topics such as transmission control, 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
- Covers the topic from an engineering perspective rather than a technician or mechanic-focused trouble-shooting level
- Ideal as a conversion tool for control and electronic engineers moving into the automotive industry and a valuable reference for all automotive engineers without an electronics background needing to understand this far-reaching topic

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**Bibliography**

- Sales Rank: #1451253 in eBooks
- Published on: 2012-12-31
- Released on: 2012-12-31
- Format: Kindle eBook

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### **Editorial Review**

#### Review

An illustrated how-to guide for smooth-running performance! Helps readers understand how electronic circuits and devices run important parts in automobiles. "Explains how electronics affect engine performance, fuel economy, and emissions. Describes the role of electronics in speed control, ride control, and anti-lock braking. Gives inside information on speech synthesis. Includes many examples and illustrat".  
--*HOWARD W SAMS & CO*

#### From the Back Cover

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From simple automotive electronic circuits to latest developments in telematics, active safety, entertainment and communications, Understanding Automotive Electronics is an ideal resource for automotive engineers without a background in electronics or control needing to work in the area or supervise specialists.

Thoroughly updated throughout, this new edition moves away from introductory mechanic-level electronics to cover in more depth hot topics such as transmission control, hybrid control, AUTOSAR (AUTomotive Open System ARchitecture) and vehicle networks.

A rare engineering-focused resource on automotive electronics and control this book is ideal as a quick reference and get-up-to-speed-fast guide for all engineers in the automotive industry.

#### About the Author

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.

### **Users Review**

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**Curtis Salas:**

Have you spare time to get a day? What do you do when you have more or little spare time? That's why, you can choose the suitable activity for spend your time. Any person spent their own spare time to take a stroll, shopping, or went to often the Mall. How about open or even read a book eligible Understanding Automotive Electronics: An Engineering Perspective? Maybe it is being best activity for you. You realize beside you can spend your time using your favorite's book, you can cleverer than before. Do you agree with the opinion or you have other opinion?

**Angela Hurd:**

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**Eddie McCoy:**

A lot of people always spent their very own free time to vacation as well as go to the outside with them family members or their friend. Were you aware? Many a lot of people spent they free time just watching TV, or perhaps playing video games all day long. In order to try to find a new activity that's look different you can read the book. It is really fun for yourself. If you enjoy the book which you read you can spent the entire day to reading a guide. The book Understanding Automotive Electronics: An Engineering Perspective it is extremely good to read. There are a lot of individuals who recommended this book. These people were enjoying reading this book. In the event you did not have enough space bringing this book you can buy often the e-book. You can m0ore quickly to read this book from your smart phone. The price is not to fund but this book provides high quality.

**Sabrina Crockett:**

In this time globalization it is important to someone to obtain information. The information will make professionals understand the condition of the world. The health of the world makes the information much easier to share. You can find a lot of references to get information example: internet, paper, book, and soon. You will observe that now, a lot of publisher that print many kinds of book. The actual book that recommended to you is Understanding Automotive Electronics: An Engineering Perspective this book consist a lot of the information on the condition of this world now. This particular book was represented so why is the world has grown up. The terminology styles that writer make usage of to explain it is easy to understand. The writer made some exploration when he makes this book. This is why this book appropriate all of you.

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