



# Automotive Electronics Handbook

By Ronald K. Jurgen

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Nearly 50 well-known auto electronics gurus at firms ranging from Chrysler to Motorola hand you ready-to-use templates and powerful on-the-job shortcuts, taking you far beyond basic sensors and actuators for schematic-level working explanations of everything from front and side airbags, smart instrument displays and sleep warning systems to seat occupancy detectors, all-electric vehicles, electric hybrids and more. With hundreds of all-new design secrets and previews of emerging digital technologies, this exhaustive guide is the most comprehensive of its kind.

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## **Editorial Review**

### **From the Back Cover**

Expert, A-to-Z coverage of every electronics system in today's cars. From antilock brakes to collision warning systems, automotive electronics figure prominently in the design of modern automobiles like never before. And, when it comes to taking you through this technology in an authoritative, accessible, one-stop format, no resource comes close to Jurgen's bestselling Automotive Electronics Handbook. Whether you're an electronic engineer, mechanical engineer, or a technician working in the automotive industry or a related area, this indispensable reference is all you need to stay on top of the fast-moving world of automotive electronics. Featuring contributions from a "who's who" of experts from leading-edge companies like Chrysler, Bosch, Honda, Motorola, Intel, and Nissan, the revised and updated second edition builds on its successful predecessor's in-depth look at sensor and actuators, electronic systems, and components. The result is an all-in-one, landmark guide to automotive electronics that's your best bet for easy, at-a-glance reference and fast answers to common problems.

### **About the Author**

Ronald K. Jurgen was formerly a senior editor at IEEE Spectrum, where he specialized in automotive and consumer electronics writing and editing. Jurgen is the editor of the Digital Consumer Electronics Handbook (McGraw-Hill, 1997), the Society of Automotive Engineers' (SAE) Progress in Technology series of books on automotive electronics (now being published), and their three-volume history of automotive electronics (1998). He is also an assistant editor of the Electronics Engineers' Handbook, 4e (McGraw-Hill, 1998). His memberships include SAE, the Institute of Electrical and Electronics Engineers, Inc., where he is a Life Senior member, and the IEEE

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