

# A Comprehensible Guide to Controller Area Network

By Wilfried Voss

## **Controller Area Network (CAN):**

Main Characteristics

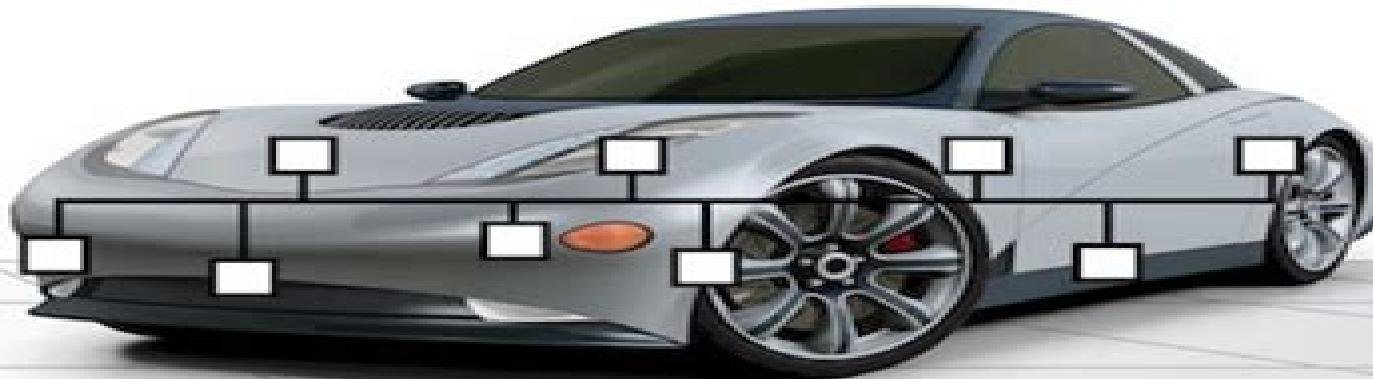
Message Frame Architecture

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Bus Arbitration

Error Detection and Fault Confinement

Physical Layer



# Comprehensible Guide Controller Area Network

**Clemens Wendtner**

## **Comprehensible Guide Controller Area Network:**

*A Comprehensible Guide to Controller Area Network* Wilfried Voss,2008 Controller Area Network CAN is a serial network technology that was originally designed for the automotive industry but has also become a popular bus in industrial automation The CAN bus is primarily used in embedded solutions and provides communication among microprocessors up to real time requirements A Comprehensible Guide To Controller Area Network represents a very thoroughly researched and complete work on CAN It provides information on all CAN features and aspects combined with high level of readability Book jacket

**Understanding and Using the Controller Area Network Communication Protocol** Marco Di Natale,Haibo Zeng,Paolo Giusto,Arkadeb Ghosal,2012-01-19 This book to offers a hands on guide to designing analyzing and debugging a communication infrastructure based on the Controller Area Network CAN bus Although the CAN bus standard is well established and currently used in most automotive systems as well as avionics medical systems and other devices its features are not fully understood by most developers who tend to misuse the network This results in lost opportunities for better efficiency and performance These authors offer a comprehensive range of architectural solutions and domains of analysis It also provides formal models and analytical results with thorough discussion of their applicability so that it serves as an invaluable reference for researchers and students as well as practicing engineers

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**Diagnostic Communication with Road-Vehicles and Non-Road Mobile Machinery** Peter Subke,2019-03-01 Diagnostic Communication with Road Vehicles and Non Road Mobile Machinery examines the communication between a diagnostic tester and E E systems of road vehicles and non road mobile machinery such as agricultural machines and construction equipment The title also contains the description of E E systems control units and in vehicle networks the communication protocols e g OBD J1939 and UDS on CAN IP and a glimpse into the near future covering remote cloud based diagnostics and cybersecurity threats

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Wilfried Voss,2008 SAE J1939 has become the accepted industry standard and the vehicle network technology of choice for off highway machines This resource provides profound information on the J1939 message format and network management

**The Comprehensive Guide to Wireless Technologies** Lawrence Harte,2000 Wireless communication is an important fact of life Keep abreast of the ever changing wireless world and learn the basic features and operations of multiple types of wireless technologies Charts tables and drawings explain the vast complexity of how each mode works *Comprehensive Dictionary of Acronyms and Abbreviations of Institutions and Organizations* Michael Peschke,2002 *The Publishers Weekly*,2003 *Controller Area Network* Konrad Etschberger,2001 **EDN, Electrical Design News** ,2001 *Mobile Robots*,1996 *Annual Index/abstracts of SAE Technical Papers* ,1995 *EDN* ,2006 *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 **ElectronicsWeek** ,1984 *The Motor Ship* ,1997 *InTech* ,1995

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