eBooks (PDF) Describing CAN, CANopen and SAE J1939 Protocol Standards

By Thomas Kelly
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Copperhill Media is the leading publisher of technical literature with focus on Controller Area Network (CAN) based technologies and Higher Layer Protocols. All literature is available in paperback form through Amazon.com or as eBooks (PDF) through the Copperhill Media web site.

'A Comprehensible Guide to Controller Area Network' by Wilfried Voss represents the most thoroughly researched and most complete work on CAN available in the marketplace. Controller Area Network (CAN) is a serial network technology that was originally designed for the automotive industry, especially for European cars, but has also become a popular bus in industrial automation as well as other applications. The CAN bus is primarily used in embedded systems, and as its name implies, is a network technology that provides fast communication among microcontrollers up to real-time requirements, eliminating the need for the much more expensive and complex technology of a Dual-Ported RAM. This book provides complete information on all CAN features and aspects combined with a high level of readability. The author, Wilfred Voss, is the President of esd electronics, Inc., a company that specializes in CAN technology.
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'Embedded Networking with CAN and CANopen' was written by Olaf Pfeiffer, Andrew Ayre, and Christian Keydel, all founders and owners of the Embedded System Academy. Providing a detailed look at both CAN and CANopen, this book examines those technologies in the context of embedded networks. There is an overview of general embedded networking and an introduction to the primary functionality provided by CANopen. Everything one needs to know to configure and operate a CANopen network using off-the-shelf components is described, along with details for those designers who want to build their own CANopen nodes. The wide variety of applications for CAN and CANopen is discussed, and instructions in developing embedded networks based on the protocol are included. In addition, references and examples using MicroCANopen, PCANopen Magic, and Vector's high-end development tools are provided.
More info: http://www.copperhillmedia.com/CANopenBook.html

'A Comprehensible Guide to J1939' is the first work on J1939 besides the SAE J1939 standards collection. It provides profound information on the J1939 message format and network management combined with a high level of readability. SAE J1939 has become the accepted industry standard and the vehicle network technology of choice for off-highway machines in applications such as construction, material handling, and forestry machines. J1939 is a higher-layer protocol based on Controller Area Network (CAN). It provides serial data communications between microprocessor systems (also called Electronic Control Units - ECU) in any kind of heavy duty vehicles. The messages exchanged between these units can be data such as vehicle road speed, torque control message from the transmission to the engine, oil temperature, and many more.
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Copperhill Media Corporation is a publisher of technical literature with special interest in Controller Area Network, CANopen and SAE J1939.

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