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### Electronic Control Systems

By Ross Bannatyne

Written by a leading expert on the topic of electronics, Ross T. Bannatyne, this report describes the evolution of electronic control systems and examines the recent growth experienced in the four main system categories - safety and convenience, powertrain, body controls, and entertainment and communications.

Chapters include:

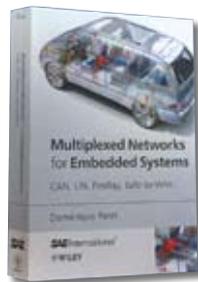
- Types of Electronic Control Systems
- Trends
- Technologies
- Vehicular Networks
- Challenges
- Software
- The Future

ISBN: 978-0-7680-0984-2, 88 pp., Paperbound 2003.

**\$159.00 (SAE Member)**

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**Product Code: T-107**



### Multiplexed Networks for Embedded Systems

**CAN, LIN, FlexRay, Safe-by-Wire...**

By Dominique Paret

*Multiplexed Networks for Embedded Systems* provides a comprehensive introduction to automotive multiplexed network buses, covering the technical principles, components, implementation issues, and applications of numerous systems.

A valuable guide to embedded systems for a wide range of applications, this book features thorough coverage of:

- Controller Area Network (CAN)
- Local Interconnect Network (LIN)
- Time-triggered CAN (TTCAN)
- FlexRay
- X-by-Wire
- Fail-Safe-System Basis Chip (SBC)
- Other gateways
- Safe-by-Wire
- 12C
- Media Oriented Systems Transport (MOST)
- and more

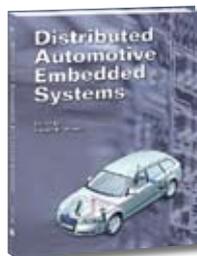
With vehicles becoming increasingly reliant of robust electronics networks and systems (for improved reliability, anti-lock brake systems, steering, on-board navigation systems, and much more), *Multiplexed Networks for Embedded Systems* will be a valuable reference for engineers and researchers developing electronics, as well as anyone interested in the application of network technologies.

ISBN: 978-0-7680-1938-4, 434 pp., Casebound 2007.

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**Product Code: R-385**



### Distributed Automotive Embedded Systems

Ronald K. Jurgen

Automotive embedded systems are distributed throughout modern vehicles using multiple vehicle networks partitioned across a variety of different electronic modules. As more complex control systems are used in automobiles, more distributed automotive embedded systems will be needed.

This book contains 88 papers covering the past seven years (2001-2007) of research on the varying aspects of distributed embedded systems. Topics covered include:

- Controller Design/Development
- Software Design/Development
- Communication Networks/Systems
- Model-Based Hardware/Software/Network Developments
- System Testing/Diagnostics
- Implementation Examples

The book also includes editor Ronald K. Jurgen's introduction ("Distributed Embedded Systems: The Key to Future Automotive Electronics") and a concluding section on the trends impacting future distributed automotive embedded systems.

ISBN: 978-0-7680-1966-7, 782 pp., Casebound 2007.

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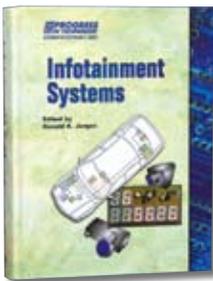
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## Infotainment Systems

By Ronald K. Jurgen

The field of in-vehicle infotainment systems covers a wide variety of digital applications, including internal connectivity, entertainment, external communications, navigation services, and radio. This book contains 89 papers covering the past eight years (2000-2007) of engineering developments related to infotainment systems.

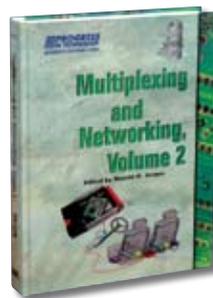
The book also includes editor Ronald K. Jurgen's introduction ("Infotainment Systems on Fast Forward") and a concluding section on "future trends" which features papers on future security needs, virtualization architectures, operating system requirements, network architectures, and data-reduction protocols.

ISBN: 978-0-7680-1943-8, 742 pp., Casebound 2007.

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## Multiplexing and Networking

Volume 2

By Ronald K. Jurgen

This book contains 63 papers covering six years of research (from 2000-2005) on multiplexing and networking trends and technology. Following an introduction Multiplexing and Networking on the Rise by editor Ronald K. Jurgen, papers are organized in five categories:

- Multiplexing and Networking Systems
- Protocols
- Gateways and Middleware
- Network/Protocol Testing
- Viewpoints on Future Trends

ISBN: 978-0-7680-1715-1, 480 pp., Casebound 2006.

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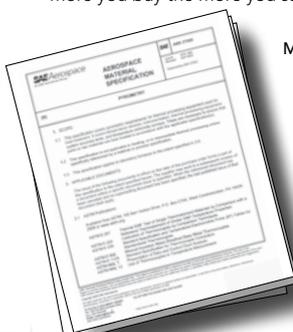
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