Multiplexed Networks for Embedded Systems: CAN, LIN, FlexRay, Safe by Wire. (Hardback)

By Dominique Paret

John Wiley and Sons Ltd, United States, 2007. Hardback. Book Condition: New. 250 x 174 mm. Language: English . Brand New Book. Multiplexed networks are essential for the unified, efficient and cost-effective exchange of electronic information within embedded component systems. This is especially important in automotive manufacturing as vehicles become increasingly reliant on robust electronic networks and systems for improved reliability, anti-lock brake systems (ABS), steering, on-board navigation systems, and much more. The latest systems such as X-by-Wire and FlexRay aim to produce faster, fault-tolerant network component interconnects, for state-of-the-art network implementation and safer, more reliable engineering of vehicular systems. This book provides a thorough and comprehensive introduction to automotive multiplexed network buses, covering the technical principles, components, implementation issues and applications. Key features:* Presents a thorough coverage of the controller area network (CAN) protocol, including information on physical layers, conformity problems, hardware and software tools, and application layers.* Gives a detailed description of the new local interconnect network (LIN) bus, setting out its developments, properties, problems and ways to overcome these.* Examines the existing and emerging network buses such as time-triggered CAN (TTCAN), FlexRay and X-by-Wire.* Explores the possibilities for linking the various buses that are discussed, explaining how...

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