



Architecting and Modeling Automotive Embedded Systems

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Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller Technology, Methods and Management | Good design and management of automotive electronics and software provides a strong competitive advantage. Electronics are driving current innovations but must be introduced in the vehicle without compromising the final price tag. At the same time electronics has to compete with, and win over, the dependability of proven mechanical solutions. This book provides a broad perspective on the topic of Architecting and Modeling Automotive Embedded Systems to help improve costs and dependability by understanding technologies, methods and management. An overview of applications and technologies of automotive electronics is given, together with a deeper discussion on the cost-efficiency and dependability requirements posed on automotive systems. Also a quantitative method for modular architecture design, based on an information model, is described. Such an information model is a key enabler for managing the increasing complexity of automotive electronics, it provides the analyzability needed to ensure the dependability of the systems. The ideas and methods presented in this book have been developed and tried in an industrial setting through a range of case studies. Format: Paperback | Language/Sprache: english | 428 gr | 316 pp.



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