



Embedded Microcomputer Systems: Real Time Interfacing

By Jonathan W. Valvano

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Embedded Microcomputer Systems: Real Time Interfacing provides an in-depth discussion of the design of real-time embedded systems using the Freescale 6811 and 9S12 microcontrollers. This book covers the hardware aspects of interfacing, advanced software topics (including interrupts), and a systems approach to typical embedded applications. This text stands out from other microcomputer systems books because of its balanced, in-depth treatment of both hardware and software issues important in real time embedded systems design. It features a wealth of detailed case studies that demonstrate basic concepts in the context of actual working examples of systems. It also features a unique simulation software package on the bound-in CD-ROM (called Test Execute and Simulate, or TexaS, for short) - that provides a self-contained software environment for designing, writing, implementing, and testing both the hardware and software components of embedded systems.

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Editorial Review

Review

The balance between theoretical material and examples is good. I particularly appreciated the practical tidbits like what values of capacitance to use for a bypass cap and the noise characteristics of different types of resistors. Practical details of this nature are rare in university textbooks.

About the Author

Jonathan Valvano is Professor of Electrical and Computer Engineering at the University of Texas at Austin. His tenure at UT Austin began in 1981. He holds bachelors and masters degrees in computer science and electrical engineering from the Massachusetts Institute of Technology and a PhD in Medical Engineering from Harvard-MIT Division of Health Sciences and Technology. He is a leading authority on embedded systems having written 23 referred archival papers, 63 referred papers, and five book chapters in the fields of embedded systems, biomedical instrumentations, and bio-heat transfer.

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