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Embedded Systems: Real-Time Interfacing to Arm(r) Cortex -M Microcontrollers

By Jonathan Valvano

Createspace. Paperback. Book Condition: New. This item is printed on demand. Paperback. This book, now in its second edition, is the second in a series of three books that teach the fundamentals of embedded systems as applied to ARM Cortex-M microcontrollers. The three books are primarily written for undergraduate electrical and computer engineering students. They could also be used for professionals learning the ARM platform. The first book Embedded Systems: Introduction to ARM Cortex-M Microcontrollers is an introduction to computers and interfacing focusing on assembly language and C programming. This second book focuses on interfacing and the design of embedded systems. The third book Embedded Systems: Real-Time Operating Systems for ARM Cortex-M Microcontrollers is an advanced book focusing on operating systems, high-speed interfacing, control systems, and robotics. An embedded system is a system that performs a specific task and has a computer embedded inside. Topics include microcontrollers, design, verification, hardware/software synchronization, interfacing devices to the computer, timing diagrams, real-time systems, data collection and processing, motor control, analog filters, digital filters, and real-time signal processing. In general, the area of embedded systems is an important and growing discipline within electrical and computer engineering. The educational market of embedded system is dominated...


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