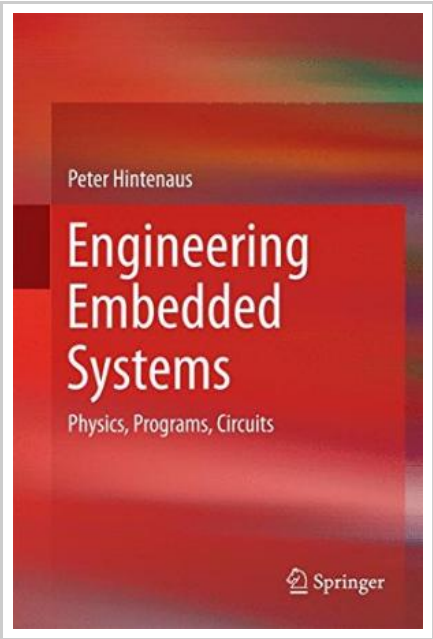

Engineering Embedded Systems: Physics, Programs, Circuits

By Peter Hintenaus

Springer International Publishing AG. Hardback. Book Condition: new. BRAND NEW, Engineering Embedded Systems: Physics, Programs, Circuits, Peter Hintenaus, This is a textbook for graduate and final-year-undergraduate computer-science and electrical-engineering students interested in the hardware and software aspects of embedded and cyberphysical systems design. It is comprehensive and self-contained, covering everything from the basics to case-study implementation. Emphasis is placed on the physical nature of the problem domain and of the devices used. The reader is assumed to be familiar on a theoretical level with mathematical tools like ordinary differential equation and Fourier transforms. In this book these tools will be put to practical use. Engineering Embedded Systems begins by addressing basic material on signals and systems, before introducing to electronics. Treatment of digital electronics accentuating synchronous circuits and including high-speed effects proceeds to micro-controllers, digital signal processors and programmable logic. Peripheral units and decentralized networks are given due weight. The properties of analog circuits and devices like filters and data converters are covered to the extent desirable by a systems architect. The handling of individual elements concludes with power supplies including regulators and converters. The final section of the text is composed of four case studies: * electric-drive control, permanent...

Reviews

Excellent eBook and valuable one. It normally will not price too much. Your daily life span is going to be change once you comprehensive reading this ebook.

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This sort of ebook is every thing and made me hunting forward and a lot more. I have read through and i also am confident that i am going to going to go through once again once more in the foreseeable future. I discovered this publication from my dad and i encouraged this book to discover.

-- ***Prof. Kip Spinka IV***