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understand organizational effectiveness and performance, drawing upon Sanghi's managerial skills, perfected in his significant turnaround performance at Microchip. Importantly, the reader benefits from insight and experience about building an organizational culture productive to performance and competitiveness." —Steven Stralser, PhD, author of *MBA in a Day*

In this new edition the latest ARM processors and

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other hardware developments are fully covered along with new sections on Embedded Linux and the new freeware operating system eCOS. The hot topic of embedded systems and the internet is also introduced. In addition a fascinating new case study explores how embedded systems can be developed and experimented with using nothing more than a standard PC. * A practical introduction to the hottest topic in modern electronics design * Covers hardware, interfacing and programming in one book * New material on Embedded Linux for embedded internet systems

PC Card (or PCMCIA) technology allows computers to

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interface with each other using less space than conventional interfaces. Currently, most applications are in the personal computing market, to enhance peripheral capabilities. As the industry changes, the applications will grow outside of the PC arena, into areas such as medical instrumentation and digital cameras, where peripheral expansion was previously unavailable. One of the advantages of this book over others is that it does more than repeat standards or list suppliers. It actually describes and demonstrates design examples which can be applied to projects. This makes it a useful guide design engineers who want to take advantage of the PC Card technology in their work. Faisal Haque is Design Engineering

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Manager at Baynetworks in Santa Clara, California and has been involved in PCMCIA design for the past four years. He is currently the chair of the PC Card ATA Working Group and has contributed to the 1995 PC Card Standard. A designer's guide to PC Card (PCMCIA). Design and software implementation examples. Coverage includes Release 2.1 as well as PC Card'95.

A set of original results in the field of high-level design of logical control devices and systems is presented in this book. These concern different aspects of such

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important and long-term design problems, including the following, which seem to be the main ones. First, the behavior of a device under design must be described properly, and some adequate formal language should be chosen for that. Second, effective algorithms should be used for checking the prepared description for correctness, for its syntactic and semantic verification at the initial behavior level. Third, the problem of logic circuit implementation must be solved using some concrete technological base; efficient methods of logic synthesis, test, and verification should be developed for that. Fourth, the task of the communication between the control device and controlled objects (and maybe between different

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control devices) waits for its solution. All these problems are hard enough and cannot be successfully solved without efficient methods and algorithms oriented toward computer implementation. Some of these are described in this book. The languages used for behavior description have been descended usually from two well-known abstract models which became classic: Petri nets and finite state machines (FSMs). Anyhow, more detailed versions are developed and described in the book, which enable to give more complete information concerning specific qualities of the regarded systems. For example, the model of parallel automaton is presented, which unlike the conventional finite automaton can be placed simultaneously into several

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places, called partial. As a base for circuit implementation of control algorithms, FPGA is accepted in majority of cases.

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