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Microelectronic Circuits and Devices by Mark N. Horenstein

The title of this book is Microelectronic Circuit and Devices (2nd Edition) (Part A & B) and it was written by Mark N. Horenstein. This particular edition is in a Paperback format. This books publish date is Jun 11, 1995 and it has a suggested retail price of \$220.20. It was published by Pearson and has a total of 1126 pages in the book.

Microelectronic Circuit and Devices (2nd Edition) (Part A ...

Microelectronic Circuit and Devices (2nd Edition) (Part A & B) by Horenstein, Mark N.

For courses in Introductory Electronics for students majoring in electrical, computer, and related engineering disciplines. Using an innovative approach, this introduction to microelectronic circuits and devices views a circuit as an entire electronic system, rather than as a collection of individual devices. It provides students with the tools necessary to make intelligent choices in the design of analog and digital systems.

Practical Signals Theory with MATLAB Applications is organized around applications, first introducing the actual behavior of specific signals and then using them to motivate the presentation of mathematical concepts. Tervo sequences the presentation of the major transforms by their complexity: first Fourier, then Laplace, and finally the z-transform. The goal is to help students who can't visualize phenomena from an equation to develop their intuition and learn to analyze signals by inspection. Finally, most examples and problems are designed to use MATLAB, making the presentation more in line with modern engineering practice.

Delivering a solid introduction to assembly language and embedded systems, ARM Assembly Language: Fundamentals and Techniques, Second Edition continues to support the popular ARM7TDMI, but also addresses the latest architectures from ARM, including CortexTM-A, Cortex-R, and Cortex-M processors—all of which have slightly different instruction sets, programmer's models, and exception handling. Featuring three brand-new chapters, a new appendix, and expanded coverage of the ARM7TM, this edition: Discusses IEEE 754 floating-point arithmetic and explains how to program with the IEEE standard notation Contains step-by-step directions for the use of KeilTM MDK-ARM and Texas Instruments (TI) Code Composer StudioTM Provides a resource to be used alongside a variety of hardware evaluation modules, such as TI's Tiva Launchpad, STMicroelectronics' iNemo and Discovery, and NXP Semiconductors' Xplorer boards Written by experienced ARM processor designers, ARM Assembly Language: Fundamentals and Techniques, Second Edition covers the topics essential to writing meaningful assembly programs, making it an ideal textbook and professional reference.

This text provides a basic treatment of modern electric machine analysis that gives readers the necessary background for comprehending the traditional applications and operating characteristics of electric machines—as well as their emerging applications in modern power systems and electric drives, such as those used in hybrid and electric vehicles. Through the appropriate use of reference frame theory, Electromagnetic Motion Devices, Second Edition introduces readers to field-oriented control of induction machines, constant-torque, and constant-power control of dc, permanent-magnet ac machines, and brushless dc machines. It also discusses steady-state and transient performance in addition to their applications. Electromagnetic Motion Devices, Second Edition presents: The derivations of all machine models, starting with a common first-principle approach (based upon Ohm's, Faraday's, Ampere's, and Newton's/Euler's laws) A generalized two-phase approach to reference frame theory that can be applied to the ac machines featured in the book The influences of the current and voltage constraints in the torque-versus-speed profile of electric machines operated with an electric drive Complete with slides, videos, animations, problems & solutions Thoroughly classroom tested and complete with a supplementary solutions manual and video library, Electromagnetic Motion Devices, Second Edition is an invaluable book for anyone interested in modern machine theory and applications. If you would like access to the solutions manual and video library, please send an email to: [ieeeproposals@wiley.com](mailto:ieeeproposals@wiley.com) or [ieeeproposals@wiley.com/a](mailto:ieeeproposals@wiley.com/a).

Microelectronic Circuit Design is known for being a technically excellent text. The new edition has been revised to make the material more motivating and accessible to students while retaining a student-friendly approach. Jaeger has added more pedagogy and an emphasis on design through the use of design examples and design notes. Some pedagogical elements include chapter opening vignettes, chapter objectives, "Electronics in Action" boxes, a problem solving methodology, and "design note" boxes. The number of examples, including new design examples, has been increased, giving students more opportunity to see problems worked out. Additionally, some of the less fundamental mathematical material has been moved to the ARIS website. In addition this edition comes with a Homework Management System called ARIS, which includes 450 static problems.

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