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Analysis, Design and Management

A Baker's Dozen

Real-time Kernel Programming

Power-Aware Testing and Test Strategies for Low Power Devices

Crystal Fire

The Birth of the Information Age

Ultraviolet LED Technology for Food Applications

An Interactive Approach

Advances in Web-Based Learning - ICWL 2004

System-on-Chip Test Architectures

Digital Electronics

Affordable and Clean Energy

Principles, Devices and Applications

Modern TTL Circuits Manual

Digital Principles & Logic Design

Automatic Compiler Generation with LISA

Reuse Methodology Manual

On-Chip Communication Architectures

Multimedia Multiprocessor Systems

Third International Conference, Beijing, China, August 8-11, 2004, Proceedings

Introduction to Physics and Simulation

Applications in Electronics Pervading Industry, Environment and Society

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### Analysis, Design and Management

Springer Science & Business Media  
This book contains all the topics of importance to the low power designer. It first lays the foundation and then goes on to detail the design process. The book also discusses such special topics as power management and modal design, ultra low power, and low power design methodology and flows. In addition, coverage includes projections of the future and case studies.

*A Baker's Dozen* John Wiley & Sons

In this book key contributions on developments and challenges in research and education on microelectronics, microsystems and related areas are published. Topics of interest include, but are not limited to: emerging fields in design and technology, new concepts in teaching, multimedia in microelectronics, industrial roadmaps and microelectronic education, curricula, nanoelectronics teaching, long distance education. The book is intended for academic

education level and targets professors, researchers and PhDs involved in microelectronics and/or more generally, in electrical engineering, microsystems and material sciences. The 2004 edition of European Workshop on Microelectronics Education (EWME) is particularly focused on the interface between microelectronics and bio-medical sciences.

*Real-time Kernel Programming* Morgan Kaufmann

The refereed proceedings of the 12th Asia-Pacific Computer Systems Architecture Conference are presented in this volume. Twenty-six full papers are presented together with two keynote and eight invited lectures. Collectively, they represent some of the most important developments in computer systems architecture. The papers emphasize hardware and software techniques for state-of-the-art, multi-core and multi-threaded architectures.

### Power-Aware Testing and Test Strategies for Low Power Devices

Academic Press  
This book presents a novel approach for

Architecture Description Language (ADL)-based instruction-set description that enables the automatic retargeting of the complete software toolkit from a single ADL processor model.

### Crystal Fire

Sams  
This best selling book has become the standard reference to TTL devices. It tells what they are, how they work, and how to use them. TTL Cookbook is filled with typical circuits and practical applications to aid the user who wants to learn about and use TTL. Book jacket.

*The Birth of the Information Age* Morgan Kaufmann

This book features the manuscripts accepted for the Special Issue "Applications in Electronics Pervading Industry, Environment and Society—Sensing Systems and Pervasive Intelligence" of the MDPI journal Sensors. Most of the papers come from a selection of the best papers of the 2019 edition of the "Applications in Electronics Pervading Industry, Environment and Society" (APPLEPIES) Conference, which was held in November 2019. All these papers have been significantly enhanced with novel experimental results. The

papers give an overview of the trends in research and development activities concerning the pervasive application of electronics in industry, the environment, and society. The focus of these papers is on cyber physical systems (CPS), with research proposals for new sensor acquisition and ADC (analog to digital converter) methods, high-speed communication systems, cybersecurity, big data management, and data processing including emerging machine learning techniques. Physical implementation aspects are discussed as well as the trade-off found between functional performance and hardware/system costs.

Ultraviolet LED Technology for Food Applications Pearson Education India  
This handbook is dedicated to application and design engineers who are developing and using electronic circuits, often within embedded systems for all kind of applications. The demand for discrete logic devices is widespread. Many aspects of system and board design have to be addressed and the usage of logic devices is very often generating

questions and support requirements which cannot be met just by data sheets. In order to provide a compact and handy document, condensed from application notes, customer support experience and general logic knowledge, this book is meant to support development engineers who are dealing with logic devices.

An Interactive Approach  
Springer Science & Business Media

This book shows readers how to learn analog electronics by simulating circuits. Readers will be enabled to master basic electric circuit analysis, as an essential component of their professional education. The author's approach enables readers to learn theory as needed, then immediately apply it to the simulation of circuits based on that theory, while using the resulting tables, graphs and waveforms to gain a deeper insight into the theory, as well as where theory and practice diverge!

**Advances in Web-Based Learning - ICWL 2004** Springer

The fundamentals and implementation of digital electronics are essential to understanding the

design and working of consumer/industrial electronics, communications, embedded systems, computers, security and military equipment. Devices used in applications such as these are constantly decreasing in size and employing more complex technology. It is therefore essential for engineers and students to understand the fundamentals, implementation and application principles of digital electronics, devices and integrated circuits. This is so that they can use the most appropriate and effective technique to suit their technical need. This book provides practical and comprehensive coverage of digital electronics, bringing together information on fundamental theory, operational aspects and potential applications. With worked problems, examples, and review questions for each chapter, Digital Electronics includes: information on number systems, binary codes, digital arithmetic, logic gates and families, and Boolean algebra; an in-depth look at multiplexers, de-

multiplexers, devices for arithmetic operations, flip-flops and related devices, counters and registers, and data conversion circuits; up-to-date coverage of recent application fields, such as programmable logic devices, microprocessors, microcontrollers, digital troubleshooting and digital instrumentation. A comprehensive, must-read book on digital electronics for senior undergraduate and graduate students of electrical, electronics and computer engineering, and a valuable reference book for professionals and researchers.

**System-on-Chip Test Architectures** Apress  
Optoelectronics has become an important part of our lives. Wherever light is used to transmit information, tiny semiconductor devices are needed to transfer electrical current into optical signals and vice versa. Examples include light emitting diodes in radios and other appliances, photodetectors in elevator doors and digital cameras, and laser diodes that transmit phone calls through glass fibers. Such optoelectronic devices take advantage of sophisticated interactions

between electrons and light. Nanometer scale semiconductor structures are often at the heart of modern optoelectronic devices. Their shrinking size and increasing complexity make computer simulation an important tool to design better devices that meet ever rising performance requirements. The current need to apply advanced design software in optoelectronics follows the trend observed in the 1980's with simulation software for silicon devices. Today, software for technology computer-aided design (TCAD) and electronic design automation (EDA) represents a fundamental part of the silicon industry. In optoelectronics, advanced commercial device software has emerged recently and it is expected to play an increasingly important role in the near future. This book will enable students, device engineers, and researchers to more effectively use advanced design software in optoelectronics. Provides fundamental knowledge in semiconductor physics and in electromagnetics, while helping to understand and use advanced device

simulation software  
Demonstrates the combination of measurements and simulations in order to obtain realistic results and provides data on all required material parameters Gives deep insight into the physics of state-of-the-art devices and helps to design and analyze of modern optoelectronic devices  
*Digital Electronics* Elsevier  
System-Level Synthesis deals with the concurrent design of electronic applications, including both hardware and software. The issue has become the bottleneck in the design of electronic systems, including both hardware and software, in several major industrial fields, including telecommunications, automotive and aerospace engineering. The major difficulty with the subject is that it demands contributions from several research fields, including system specification, system architecture, hardware design, and software design. Most existing book cover well only a few aspects of system-level synthesis. The present volume presents a comprehensive discussion of all the aspects of system-level synthesis.

Each topic is covered by a contribution written by an international authority on the subject.

*Affordable and Clean Energy* McGraw-Hill Education

With the rapid development of Web-based learning and new concepts like virtual classrooms, virtual laboratories and virtual universities, many issues need to be addressed. On the technical side, there is a need for effective technology for deployment of W-based education. On the learning side, the cyber mode of learning is very different from classroom-based learning. How can instructional development cope with this new style of learning? On the management side, the establishment of the cyber university - poses very different requirements for the set-up. Does industry-university partnership provide a solution to addressing the technological and management issues? Why do we need to standardize e-learning and what can we do already? As with many other new developments, more research is needed to establish the concepts and best practice for Web-

based learning. ICWL 2004, the 3rd International Conference on Web-Based Learning, was held at the Tsinghua University (Beijing, China) from August 8th to 11th, 2004, as a continued attempt to address many of the above-mentioned issues. Following the great successes of ICWL 2002 (Hong Kong) and ICWL 2003 (Australia), ICWL 2004 aimed at presenting new progress in the technical, pedagogical, as well as management issues of Web-based learning. The conference featured a comprehensive program, including a tutorial session, a keynote talk, a main track for regular paper presentations, and an industrial track. We received 120 papers and accepted only 58 of them in the main track for both oral and poster presentations.

### **Principles, Devices and Applications** Springer

Nature  
Learn FileMaker® Pro 10 provides an excellent reference to FileMaker Inc.'s award-winning database program for both beginners and advanced developers. From converting files created with previous versions of FileMaker Pro and sharing data on the

web to creating reports and sorting data, this book offers a hands-on approach to getting the most out of your FileMaker Pro databases. Learn how to use the completely redesigned Status area, now known as the Status toolbar; send e-mail right from FileMaker with the SMTP-based Send Mail option; build reports quickly and easily with the Saved Finds feature; automate your database with scripts and activate those scripts with the new script trigger feature; integrate your Bento data into your FileMaker files; work with the enhanced Web viewer.

### *Modern TTL Circuits*

Manual Jones & Bartlett Learning

Modern multimedia systems are becoming increasingly multiprocessor and heterogeneous to match the high performance and low power demands placed on them by the large number of applications. The concurrent execution of these applications causes interference and unpredictability in the performance of these systems. In *Multimedia Multiprocessor Systems*, an analysis mechanism is presented to accurately

predict the performance of multiple applications executing concurrently. With high consumer demand the time-to-market has become significantly lower. To cope with the complexity in designing such systems, an automated design-flow is needed that can generate systems from a high-level architectural description such that they are not error-prone and consume less time. Such a design methodology is presented for multiple use-cases -- combinations of active applications. A resource manager is also presented to manage the various resources in the system, and to achieve the goals of performance prediction, admission control and budget enforcement.

**Digital Principles & Logic Design** Springer Science & Business Media  
This book constitutes the post-conference proceedings of the 5th International Conference on Machine Learning, Optimization, and Data Science, LOD 2019, held in Siena, Italy, in September 2019. The 54 full papers presented were carefully reviewed and selected from 158 submissions. The papers cover topics in the field of

machine learning, artificial intelligence, reinforcement learning, computational optimization and data science presenting a substantial array of ideas, technologies, algorithms, methods and applications.  
*Automatic Compiler Generation with LISA* Springer Science & Business Media  
Ultraviolet LED Technology for Food Applications: From Farms to Kitchens examines the next wave in the LED revolution and its ability to bring numerous advantages of UVC disinfection. As UVC LED-based light fixtures will become the driving force behind wider adoption, with potential use in the treatment of beverages, disinfection of food surfaces, packaging and other food contact and non-contact surfaces, this book presents the latest information, including LEDs unique properties and advantages and the developments and advances made in four areas of application, including produce production and horticulture, post-harvest and post processing storage, safety and point-of-use applications. Alternative opportunities to current practices of

food production and processing that are more sophisticated and diverse are being intensively investigated in recent decades, things like Ultraviolet light (UV) irradiation. The effects of UVC LEDs against bacteria, viruses and fungi already have been demonstrated and reported, along with the first applications for disinfection of air, water and surface made for the "point-of-use" integration. Brings unique advantages of LEDs for foods from farm to kitchens Explores applications and advances in LEDs for horticulture, crops production, postharvest reservation and produce storage Investigates UV LEDs in food safety

### **Reuse Methodology**

**Manual** Springer  
This proven textbook guides readers to a thorough understanding of the theory and design of operational amplifiers (OpAmps). The core of the book presents systematically the design of operational amplifiers, classifying them into a periodic system of nine main overall configurations, ranging from one gain stage up to four or more stages. This division enables circuit designers to recognize

quickly, understand, and choose optimal configurations. Characterization of operational amplifiers is given by macro models and error matrices, together with measurement techniques for their parameters. Definitions are given for four types of operational amplifiers depending on the grounding of their input and output ports. Many famous designs are evaluated in depth, using a carefully structured approach enhanced by numerous figures. In order to reinforce the concepts introduced and facilitate self-evaluation of design skills, the author includes problems with detailed solutions, as well as simulation exercises.

### **On-Chip**

### **Communication**

**Architectures** Springer Science & Business Media Modern electronics testing has a legacy of more than 40 years. The introduction of new technologies, especially nanometer technologies with 90nm or smaller geometry, has allowed the semiconductor industry to keep pace with the increased performance-capacity demands from consumers. As a result, semiconductor test costs have been growing

steadily and typically amount to 40% of today's overall product cost. This book is a comprehensive guide to new VLSI Testing and Design-for-Testability techniques that will allow students, researchers, DFT practitioners, and VLSI designers to master quickly System-on-Chip Test architectures, for test debug and diagnosis of digital, memory, and analog/mixed-signal designs. Emphasizes VLSI Test principles and Design for Testability architectures, with numerous illustrations/examples. Most up-to-date coverage available, including Fault Tolerance, Low-Power Testing, Defect and Error Tolerance, Network-on-Chip (NOC) Testing, Software-Based Self-Testing, FPGA Testing, MEMS Testing, and System-In-Package (SIP) Testing, which are not yet available in any testing book. Covers the entire spectrum of VLSI testing and DFT architectures, from digital and analog, to memory circuits, and fault diagnosis and self-repair from digital to memory circuits. Discusses future nanotechnology test trends and challenges facing the nanometer design era; promising nanotechnology test

techniques, including Quantum-Dots, Cellular Automata, Carbon-Nanotubes, and Hybrid Semiconductor/Nanowire/Molecular Computing. Practical problems at the end of each chapter for students.

### Multimedia Multiprocessor Systems Springer

Managing the power consumption of circuits and systems is now considered one of the most important challenges for the semiconductor industry. Elaborate power management strategies, such as dynamic voltage scaling, clock gating or power gating techniques, are used today to control the power dissipation during functional operation. The usage of these strategies has various implications on manufacturing test, and power-aware test is therefore increasingly becoming a major consideration during design-for-test and test preparation for low power devices. This book explores existing solutions for power-aware test and design-for-test of conventional circuits and systems, and surveys test strategies and EDA solutions for testing low power devices.

*Third International*

<i>Conference, Beijing, China, August 8-11, 2004, Proceedings</i>	a workshop held at the DATE 2005 conference, namely Designing Complex SOCs. State-of-the-art in issues related to System-on-Chip (SoC) design by leading experts in the fields, it covers IP	development, verification, integration, chip implementation, testing and software. It contains valuable academic and industrial examples for those involved with the design of complex SOCs.
Logic Application Handbook		
Product Features and Application Insights		
This book originated from		

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