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*FPGA-based
Implementation of Signal
Processing Systems No
Starch Press*

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Advanced Wireless
Communications IBM
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An important working
resource for engineers
and researchers
involved in the design,
development, and
implementation of
signal processing
systems The last
decade has seen a rapid

expansion of the use of field programmable gate arrays (FPGAs) for a wide range of applications beyond traditional digital signal processing (DSP) systems. Written by a team of experts working at the leading edge of FPGA research and development, this second edition of *FPGA-based Implementation of Signal Processing Systems* has been extensively updated and revised to reflect the latest iterations of FPGA theory, applications, and technology. Written from a system-level perspective, it features expert discussions of contemporary methods and tools used in the design, optimization and implementation of DSP systems using programmable FPGA hardware. And it provides a wealth of practical insights—along with illustrative case studies and timely real-world examples—of critical concern to engineers working in the design and development of DSP systems for radio, telecommunications, audio-visual, and security applications, as well as bioinformatics, Big Data applications, and more. Inside you will find up-to-date coverage of: FPGA solutions for Big Data Applications, especially as they apply to huge data sets The use of

ARM processors in FPGAs and the transfer of FPGAs towards heterogeneous computing platforms

The evolution of High Level Synthesis tools—including new sections on Xilinx's HLS Vivado tool flow and Altera's OpenCL approach

Developments in Graphical Processing Units (GPUs), which are rapidly replacing more traditional DSP systems

FPGA-based Implementation of

Signal Processing Systems, 2nd Edition is an indispensable guide for engineers and researchers involved in the design and development of both traditional and cutting-edge data and signal processing systems.

Senior-level electrical and computer engineering graduates studying signal processing or digital signal processing also will find this volume of great interest.

Practical Packet Analysis, 2nd Edition Springer Science & Business Media

Provides information on ways to use Wireshark to capture and analyze packets, covering such topics as building customized capture and display filters, graphing traffic patterns, and building statistics and reports.

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Leptons And Quarks (Special Edition Commemorating The Discovery Of The Higgs Boson) Springer

Infrastructure for Homeland Security Environments Wireless Sensor Networks helps readers discover the emerging field of

low-cost standards-based sensors that promise a high order of spatial and temporal resolution and accuracy in an ever-increasing universe of applications. It shares the latest advances in science and engineering paving the way towards a large plethora of new applications in such areas as infrastructure protection and security, healthcare, energy, food safety, RFID, ZigBee, and processing. Unlike other books on wireless sensor networks that focus on limited topics in the field, this book is a broad introduction that covers all the major technology, standards, and application topics. It contains everything readers need to know to enter this burgeoning field,

including current applications and promising research and development; communication and networking protocols; middleware architecture for wireless sensor networks; and security and management. The straightforward and engaging writing style of this book makes even complex concepts and processes easy to follow and understand. In addition, it offers several features that help readers grasp the material and then apply their knowledge in designing their own wireless sensor network systems:

- * Examples illustrate how concepts are applied to the development and application of * wireless sensor networks *
- * Detailed case studies set forth all

the steps of design and implementation needed to solve real-world problems * Chapter conclusions that serve as an excellent review by stressing the chapter's key concepts * References in each chapter guide readers to in-depth discussions of individual topics This book is ideal for networking designers and engineers who want to fully exploit this new technology and for government employees who are concerned about homeland security. With its examples, it is appropriate for use as a coursebook for upper-level undergraduates and graduate students.

Embedding IBM Informix
John Wiley & Sons

This significantly revised and expanded edition discusses how to use Wireshark to capture raw network traffic, filter and analyze packets, and diagnose common network problems.

Grid Networks Springer
Nature

THE
TELECOMMUNICATIONS
HANDBOOK THE
TELECOMMUNICATIONS
HANDBOOK
ENGINEERING
GUIDELINES FOR FIXED,
MOBILE AND
SATELLITE SYSTEMS

Taking a practical approach,

The Telecommunications Handbook examines the principles and details of all the major and modern telecommunications systems currently available to industry and to end-users. It gives essential information about usage, architectures, functioning, planning, construction, measurements and optimization. The structure of the book is modular, giving both overall descriptions of the architectures and functionality of typical use cases, as well as deeper and

practical guidelines for telecom professionals. The focus of the book is on current and future networks, and the most up-to-date functionalities of each network are described in sufficient detail for deployment purposes. The contents include an introduction to each technology, its evolution path, feasibility and utilization, solution and network architecture, and technical functioning of the systems (signaling, coding, different modes for channel

delivery and security of core and radio system). The planning of the core and radio networks (system-specific field test measurement guidelines, hands-on network planning advices and suggestions for parameter adjustments) and future systems are also described. With contributions from specialists in both industry and academia, the book bridges the gap between communications in the academic context and the practical knowledge and skills needed to work in the

telecommunications industry.

Radio Network Planning and Optimisation for UMTS

Springer Science & Business Media

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Apollo 15: Preliminary Science Report John Wiley & Sons

This book provides a

comprehensive yet easy coverage of ad hoc and sensor networks and fills the gap of existing literature in this growing field. It emphasizes that there is a major interdependence among various layers of the network protocol stack. Contrary to wired or even one-hop cellular networks, the lack of a fixed infrastructure, the inherent mobility, the wireless channel, and the underlying routing mechanism by ad hoc and sensor networks introduce a number of technological challenges that are difficult to address within the boundaries of a single protocol layer. All existing textbooks on the subject often focus on a specific aspect of the technology, and fail to provide

critical insights on cross-layer interdependencies. To fully understand these intriguing networks, one need to grasp specific solutions individually, and also the many interdependencies and cross-layer interactions.

PC Mag World Scientific

This thesis investigates ultracold molecules as a resource for novel quantum many-body physics, in particular by utilizing their rich internal structure and strong, long-range dipole-dipole interactions. In addition, numerical methods based on matrix product states are analyzed in detail, and general algorithms for investigating the static and dynamic properties of essentially arbitrary one-

dimensional quantum many-body systems are put forth. Finally, this thesis covers open-source implementations of matrix product state algorithms, as well as educational material designed to aid in the use of understanding such methods.

PC Mag Springer Science & Business Media

This book explores the patterns and dynamics of the network society through its policies. Topics range from the knowledge economy, based on technology and innovation, to organizational reform and modernization in the public sector. The contributors also examine media and communication policies. Contributors include Jorge

Sampaio (president of the Portugese Republic), Manuel Castells (UCLA), Gustavo Cardoso (CIES/ISCTE, Portugal), Dale W. Jorgenson (Harvard University), Khuong M. Vu (Suffolk University), Luc Soete (UNU-INTECH and MERIT), Jane Fountain (University of Massachusetts-Amherst), James Katz (Rutgers University), Betty Collis (University of Twente, The Netherlands), Geoff Mulgan (Institute of Community Studies, London), Marcelo Branco (Brazilian Information Society), Jonathan Taplin (Annenberg School for Communication, University of Southern California), Imma Tubella (Open University of Catalonia,

Barcelona), François Bar (Annenberg School for Communication, USC), Hernan Galperin (Annenberg School for Communication, USC), Jeff Cole (Annenberg School for Communication, USC), William Mitchell (MIT), Erkki Liikanen (Bank of Finland), Pekka Himanen (Helsinki Institute for Information Society and University of California, Berkeley), Carlos Alvarez (secretary of state for the economy, Chile), and Maria João Rodrigues (ISCTE, University of Lisbon).

The Machine as Art/ The Machine as Artist No Starch Press
An "age" has passed in the 40

years since we first observed recovery from radiation damage in irradiated bacteria. During the early 1930s, we had been discussing the possibility of rapid changes after radiation exposure with Farring ton Daniels, Benjamin Duggar, John Curtis, and others at the University of Wisconsin. After working with living cells, we had concluded that organisms receiving massive insults must have a wide variety of repair mechanisms available for restoration of at least some of the essential properties of the cell. The problem was how to find and identify these recovery phenomena. At that time I was working on a problem considered to be of great importance-the

existence of the so-called mitogenetic rays. Several hundred articles and a score of books had already appeared dealing with mitogenetic rays, a type of radiation that was thought to exist in the shorter ultraviolet region. Our search for mitogenetic rays necessitated the design of experiments of greatest sensitivity for the detection of ultraviolet. It was vital that conditions be kept as constant as possible during exposure. All the work was done at icewater temperature (3-5°C) during and after exposure. We knew that light was an important factor for cell recovery, so all our experiments were done in dim light, with the plated-out cells being covered with dark cloth.

Our statements on the effect of visible light stimulated Kelner to search for "photoreactivation" (as it was later called).

Virtualization on the IBM System X3950 Server Mdpi AG

Geared toward upper-level undergraduates and graduate students, this classic resource by a giant of 20th-century mathematics applies principles of information theory to Maxwell's demon, thermodynamics, and measurement problems. 1962 edition.

PC Mag Courier Corporation

In this IBM® Redbooks® publication, we discuss and describe the capabilities for embedding Informix® into applications and software. We introduce the technological architecture and describe several of the functions and features that support Informix as a robust and powerful embeddable DBMS. Many of these features are unique in the industry today, enabling clients to create a business advantage. The Informix database server can support the requirements of an

embeddable DBMS, and is doing so for many companies today. The low administration requirements of the Informix database server enable clients to deploy thousands of Informix instances, embedded in applications in locations where there are no technical resources to support the database. The real requirement is for applications with embedded databases that require little or no administration, take minimum storage resources, have excellent performance,

and are highly reliable. As a mature and reliable DBMS, the Informix database server works well with small, growing, and large databases, and meets the key requirements for embedded databases, which include the ability to execute without needing any configuration or other DBA administrative activities, and the flexibility to work on all of the platforms commonly used in the marketplace today.

Practical Packet Analysis
IBM.Com/Redbooks
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authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology.

PC Mag John Wiley & Sons
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technology.

Science and Information

Theory John Wiley & Sons

Overview and Goals Wireless communication technologies

are undergoing rapid

advancements. The last few years have experienced a steep

growth in research in the area of wireless sensor networks

(WSNs). In WSNs,

communication takes place

with the help of spatially distributed autonomous sensor nodes

equipped to sense specific information.

WSNs, especially the ones that have gained much

popularity in the recent years,

are, typically, ad hoc in nature

and they inherit many characteristics/features of

wireless ad hoc networks such as the ability for infrastructure-

less setup, minimal or no reliance on network planning,

and the ability of the nodes to self-organize and self-configure

without the involvement of a centralized network manager,

router, access point, or a switch. These features help to

set up WSNs fast in situations where there is no existing

network setup or in times when setting up a fixed infrastructure

network is considered

infeasible, for example, in

times of emergency or during

relief operations. WSNs find a variety of applications in both

the military and the civilian

population worldwide such as in cases of enemy intrusion in

the battlefield, object tracking, habitat monitoring, patient

monitoring, fire detection, and so on. Even though sensor

networks have emerged to be attractive and they hold great

promises for our future, there are several challenges that need

to be addressed. Some of the well-known challenges are

attributed to issues relating to coverage and deployment,

scalability, quality-of-service, size, computational power,

energy efficiency, and security.

The Telecommunications Handbook

Center for Transatlantic Relations
This book describes the latest progress in the application of nanotechnology for water treatment and purification. Leaders in the field present both the fundamental science and a comprehensive overview of the diverse range of tools and technologies that have been developed in this critical area. Expert chapters present the unique physicochemical

and surface properties of nanoparticles and the advantages that these provide for engineering applications that ensure a supply of safe drinking water for our growing population.

Application areas include generating fresh water from seawater, preventing contamination of the environment and creating effective and efficient methods for remediation of polluted waters. The chapter authors are leading world-wide experts in the field with either academic or industrial

experience, ensuring that this comprehensive volume presents the state-of-the-art in the integration of nanotechnology with water treatment and purification.