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Creating Sustainable Work Systems Rapid Prototyping of Digital Systems
Implementing IBM System Networking 10Gb Ethernet Switches Introduction
to Satellite Communication Fiber Optics Engineering

Rapid Prototyping of Digital Systems, Second Edition provides an exciting and challenging laboratory component for an undergraduate digital logic design class. The more advanced topics and exercises are also appropriate for consideration at schools that have an upper level course in digital logic or programmable logic. Design engineers working in industry will also want to consider this book for a rapid introduction to FPLD technology and logic synthesis using commercial CAD tools, especially if they have not had previous experience with the new and rapidly evolving technology. Two tutorials on the Altera CAD tool environment, an overview of programmable logic, and a design library with several easy-to-use input and output functions were developed for this book to help the reader get started quickly. Early design examples use schematic capture and library components. VHDL is used for more complex designs after a short introduction to VHDL-based synthesis. A coupon is included with the text for purchase of the new UP 1X board. The additional logic and memory in the UP 1X's FLEX 10K70 is useful on larger design projects such as computers and video games. The second edition includes an update chapter on programmable logic,

new robot sensors and projects, optional Verilog examples, and a meta assembler which can be used to develop assemble language programs for the computer designs in Chapters 8 and 13. Since the first edition of this book was published, the subject of sustainability has risen to the forefront of thinking in almost every subject within business and management. Tackling the latest developments and integrating practical perspectives with rigorous research, this new edition sheds light on a vital aspect of working life. Current trends reveal that increasing intensity at work has major consequences at individual, organizational and societal levels. Sustainability in work systems thus requires a multi-stakeholder approach, emphasising a value-based choice to promote the concurrent development of various resources in the work system. This sustainability grows from intertwined individual and collective learning processes taking place within and between organizations in collaboration. In exploring the development of sustainable work systems, this book analyzes these problems, and provides the basis for designing and implementing 'sustainable work systems' based on the idea of regeneration and the development of human and social resources. The authors, who are leading researchers and practitioners from around the world, consider the existing possibilities and emerging solutions and explore alternatives to intensive work systems. For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network. Contains the final statistical record of companies which merged, were acquired, went bankrupt or otherwise disappeared as private companies. The Second Edition of this critically-acclaimed text continues the standard of excellence set in the first edition by providing a thorough introduction to the fundamentals of telecommunication networks without bogging you down in complex technical jargon or math. Although focusing on the basics, the book has been thoroughly updated with the latest advances in the field, including a new chapter on metropolitan area networks (MANs) and new sections on Mobile Fi, ZigBee and ultrawideband. You'll learn which choices are now available to an organization, how to evaluate them and how to develop strategies that achieve the best balance among cost, security and performance factors for voice, data, and image communication. This book is an authoritative reference work covering the range of mechanical and electrical topics embodied in the practical design and application of diesel generating plant. Within the past few decades, information technologies have been evolving at a tremendous rate, causing profound changes to our world and our ways of life. In particular, fiber optics has been playing an increasingly crucial role within the telecommunication revolution. Not only most

long-distance links are fiber based, but optical fibers are increasingly approaching the individual end users, providing wide bandwidth links to support all kinds of data-intensive applications such as video, voice, and data services. As an engineering discipline, fiber optics is both fascinating and challenging. Fiber optics is an area that incorporates elements from a wide range of technologies including optics, microelectronics, quantum electronics, semiconductors, and networking. As a result of rapid changes in almost all of these areas, fiber optics is a fast evolving field. Therefore, the need for up-to-date texts that address this growing field from an interdisciplinary perspective persists. This book presents an overview of fiber optics from a practical, engineering perspective. Therefore, in addition to topics such as lasers, detectors, and optical fibers, several topics related to electronic circuits that generate, detect, and process the optical signals are covered. In other words, this book attempts to present fiber optics not so much in terms of a field of "optics" but more from the perspective of an engineering field within "optoelectronics. Today, organizations face tremendous challenges with data explosion and information governance. InfoSphere™ Optim™ solutions solve the data growth problem at the source by managing the enterprise application data. The Optim Data Growth solutions are consistent, scalable solutions that include comprehensive capabilities for managing enterprise application data across applications, databases, operating systems, and hardware platforms. You can align the management of your enterprise application data with your business objectives to improve application service levels, lower costs, and mitigate risk. In this IBM® Redbooks® publication, we describe the IBM InfoSphere Optim Data Growth solutions and a methodology that provides implementation guidance from requirements analysis through deployment and administration planning. We also discuss various implementation topics including system architecture design, sizing, scalability, security, performance, and automation. This book is intended to provide various systems development professionals, Data Solution Architects, Data Administrators, Modelers, Data Analysts, Data Integrators, or anyone who has to analyze or integrate data structures, a broad understanding about IBM InfoSphere Optim Data Growth solutions. By being used in conjunction with the product manuals and online help, this book provides guidance about implementing an optimal solution for managing your enterprise application data. Enhancing Enterprise Intelligence: Leveraging ERP, CRM, SCM, PLM, BPM, and BI takes a fresh look at the benefits of enterprise systems (ES), focusing on the fact that ES collectively contribute to enhancing the intelligence quotient of an enterprise. The book provides an overview of the characteristic domains (i.e., business functions, processes, and activities) addressed by the various categories of ES, namely, ERP, CRM, SCM, PLM, BPM, and BI. The

book begins with an overview of agile enterprises and dimensions of intelligent enterprises. The middle chapters detail CRM's decisive concept of customer centricity, SCM's differentiating concept of customer responsiveness, and PLM's stupendous transformative potential for renewing the enterprise along with the establishment of a collaborative enterprise with BPM and enterprise BPM methodology. The latter chapters deal with the realization of an informed enterprise with BI coupled with the novel concept of decision patterns. The author highlights the fact that any end-user application's effectiveness and performance can be enhanced by transforming it from a bare transaction to one clothed by a surrounding context formed from an aggregate of all relevant past decision patterns. The final chapter examines various aspects relating to a successful ES implementation project, and the appendix provides an overview of the SAP Business Suite to give you a practical context to the discussions presented in the book. In today's infrastructure, it is common to build networks based on 10 Gb Ethernet technology. The IBM® portfolio of 10 Gb systems networking products includes Top-of-Rack switches, and the embedded switches in the IBM BladeCenter® family. In 2010, IBM formed the IBM System Networking business (by acquiring BLADE Network Technologies), which is now focused on driving data center networking by using the latest Ethernet technologies. The main focus of this IBM Redbooks® publication is on the IBM System Networking 10Gb Switch Modules, which include both embedded and Top-of-Rack (TOR) models. After reading this book, you can perform basic to advanced configurations of IBM System Networking 10Gb Switch Modules. In this publication, we introduce the various 10 Gb switch models that are available today and then describe in detail the features that are applicable to these switches. We then present two architectures that use these 10 Gb switches, which are used throughout this book. These designs are based on preferred practices and the experience of authors of this book. Our intention is to show the configuration of the different features that are available with IBM System Networking 10Gb Switch Modules. We follow the three-tier Data Center design, focusing on the Access and Aggregation Layers, because those layers are the layers that IBM System Networking Switches use. Ten Strategies of a World-Class Cyber Security Operations Center conveys MITRE's accumulated expertise on enterprise-grade computer network defense. It covers ten key qualities of leading Cyber Security Operations Centers (CSOCs), ranging from their structure and organization, to processes that best enable smooth operations, to approaches that extract maximum value from key CSOC technology investments. This book offers perspective and context for key decision points in structuring a CSOC, such as what capabilities to offer, how to architect large-scale data collection and analysis, and how to prepare the CSOC team for agile, threat-based response. If you manage, work in, or are standing up a

CSOC, this book is for you. It is also available on MITRE's website, www.mitre.org. This volume is for students and scholars of intellectual property law, practitioners seeking creative arguments from across the field, and policymakers searching for solutions to changing social and technological issues. The book explores the tensions between two fundamentally competing demands made of IP law. Cogently addressing the future of signal integrity and the effect it will have on the data transmission industry as a whole, this all-inclusive guide addresses a wide array of technologies, from traditional digital data transmission to microwave measurements, and accessibly examines the gap between the two. Focusing on real world applications and providing a wide array of case studies that show how each technology can be used—from backplane design challenges to advanced error correction techniques—this guide addresses many of today's high-speed technologies while also providing excellent insight into their future direction. With numerous valuable lessons pertaining to the signal integrity industry, this resource is the ultimate must-read guide for any specialist in the design engineering field. For an accessible and comprehensive survey of telecommunications and data communications technologies and services, consult the Telecommunications and Data Communications Handbook, which includes information on origins, evolution and meaningful contemporary applications. Find discussions of technologies set in context, with details on fiber optics, cellular radio, digital carrier systems, TCP/IP, and the Internet. Explore topics like Voice over Internet Protocol (VoIP); 802.16 & WiMAX; Passive Optical Network (PON); 802.11g & Multiple Input Multiple Output (MIMO) in this easily accessible guide without the burden of technical jargon. This book presents an extensive discussion of the strategic and tactical aspects of customer relationship management as we know it today. It helps readers obtain a comprehensive grasp of CRM strategy, concepts and tools and provides all the necessary steps in managing profitable customer relationships. Throughout, the book stresses a clear understanding of economic customer value as the guiding concept for marketing decisions. Exhaustive case studies, mini cases and real-world illustrations under the title "CRM at Work" all ensure that the material is both highly accessible and applicable, and help to address key managerial issues, stimulate thinking, and encourage problem solving. The book is a comprehensive and up-to-date learning companion for advanced undergraduate students, master's degree students, and executives who want a detailed and conceptually sound insight into the field of CRM. The new edition provides an updated perspective on the latest research results and incorporates the impact of the digital transformation on the CRM domain. Health care HVAC systems serve facilities in which the population is uniquely vulnerable and exposed to an elevated risk of health, fire, and safety hazard. These heavily

regulated, high-stakes facilities undergo continuous maintenance, verification, inspection, and recertification, typically operate 24/7, and are owner occupied for long life. The HVAC systems in health care facilities must be carefully designed to be installed, operated and maintained in coordination with specialized buildings services, including emergency and normal power, plumbing and medical gas systems, automatic transport, fire protections and a myriad of IT systems, all within a limited building envelope. "The objective of this report is to identify and establish a roadmap on how to do that, and lay the groundwork for transforming how this Nation- from every level of government to the private sector to individual citizens and communities - pursues a real and lasting vision of preparedness. To get there will require significant change to the status quo, to include adjustments to policy, structure, and mindset"--P. 2.

The Manual of Digital Museum Planning is a comprehensive guide to digital planning, development, and operations for museum professionals and students of museums studies and arts administration. In the tradition of Lord Cultural Resource's renowned manuals, this book gives practical advice on how digital can enhance and improve all aspects of the museum. With chapters written by experienced professionals working at leading institutions such as the British Museum, the Metropolitan Museum of Art, the Indianapolis Museum of Art, Bristol Culture, the Canadian Museum for Human Rights, and others, The Manual of Digital Museum Planning is an easy-to-understand, step-by-step guide for anyone planning a new museum, a museum expansion, or a new project in the Digital Age. Part 1 explains how digital technologies are transforming museums and their value proposition Part 2 explores how adopting a user-centric, omnichannel approach creates new relationships between museums and communities Part 3 offers a guide to integrating digital into the workflow of museums- from data analytics, to user experience design to project management Part 4 identifies the business models, infrastructure and skills and competencies for the digital museum, Each chapter culminates in 'summary takeaways' for easy recall, and key words are defined throughout. A glossary and reference list are also included as an accessible resources for readers.

Beginning with IBM® CICS® Version 2, applications can run on TCBS apart from the QR TCB, which has positive implications for improving system throughput and for implementing new technologies inside of CICS. Examples of implementing new technologies include using the IBM MVSTM Java virtual machine (JVM) inside CICS and enabling listener tasks written for other platforms to be imported to run under CICS. The newest release, CICS Transaction Server for z/OS® (CICS TS) V4.2, includes scalability enhancements so that you can perform more work more quickly in a single CICS system. The advantage of this enhancement is that you can increase vertical scaling and decrease the need to scale horizontally, reducing the number of

regions that are required to run the production business applications. The scalability enhancements in CICS TS V4.2 fall into two broad areas, which are increased usage of open transaction environment (OTE) and of 64-bit storage. This IBM Redbooks® publication is a comprehensive guide to threadsafe concepts and implementation for IBM CICS. This book explains how systems programmers, applications developers, and architects can implement threadsafe applications in an environment. It describes the real-world experiences of users, and our own experiences, of migrating applications to be threadsafe. This book also highlights the two most critical aspects of threadsafe applications: system performance and integrity. Praise for the First Edition "Now a new laboratory bible for optics researchers has joined the list: it is Phil Hobbs's Building Electro-Optical Systems: Making It All Work." -Tony Siegman, Optics & Photonics News Building a modern electro-optical instrument may be the most interdisciplinary job in all of engineering. Be it a DVD player or a laboratory one-off, it involves physics, electrical engineering, optical engineering, and computer science interacting in complex ways. This book will help all kinds of technical people sort through the complexity and build electro-optical systems that just work, with maximum insight and minimum trial and error. Written in an engaging and conversational style, this Second Edition has been updated and expanded over the previous edition to reflect technical advances and a great many conversations with working designers. Key features of this new edition include: Expanded coverage of detectors, lasers, photon budgets, signal processing scheme planning, and front ends Coverage of everything from basic theory and measurement principles to design debugging and integration of optical and electronic systems Supplementary material is available on an ftp site, including an additional chapter on thermal Control and Chapter problems highly relevant to real-world design Extensive coverage of high performance optical detection and laser noise cancellation Each chapter is full of useful lore from the author's years of experience building advanced instruments. For more background, an appendix lists 100 good books in all relevant areas, introductory as well as advanced. Building Electro-Optical Systems: Making It All Work, Second Edition is essential reading for researchers, students, and professionals who have systems to build. More and more businesses today have their receive phone service through Internet instead of local phone company lines. Many businesses are also using their internal local and wide-area network infrastructure to replace legacy enterprise telephone networks. This migration to a single network carrying voice and data is called convergence, and it's revolutionizing the world of telecommunications by slashing costs and empowering users. The technology of families driving this convergence is called VoIP, or Voice over IP. VoIP has advanced Internet-based telephony to a viable solution, piquing the

interest of companies small and large. The primary reason for migrating to VoIP is cost, as it equalizes the costs of long distance calls, local calls, and e-mails to fractions of a penny per use. But the real enterprise turn-on is how VoIP empowers businesses to mold and customize telecom and datacom solutions using a single, cohesive networking platform. These business drivers are so compelling that legacy telephony is going the way of the dinosaur, yielding to Voice over IP as the dominant enterprise communications paradigm. Developed from real-world experience by a senior developer, O'Reilly's *Switching to VoIP* provides solutions for the most common VoIP migration challenges. So if you're a network professional who is migrating from a traditional telephony system to a modern, feature-rich network, this book is a must-have. You'll discover the strengths and weaknesses of circuit-switched and packet-switched networks, how VoIP systems impact network infrastructure, as well as solutions for common challenges involved with IP voice migrations. Among the challenges discussed and projects presented: building a softPBX configuring IP phones ensuring quality of service scalability standards-compliance topological considerations coordinating a complete system ?switchover? migrating applications like voicemail and directoryservices retro-interfacing to traditional telephony supporting mobile users security and survivability dealing with the challenges of NAT To help you grasp the core principles at work, *Switching to VoIP* uses a combination of strategy and hands-on "how-to" that introduce VoIP routers and media gateways, various makes of IP telephone equipment, legacy analog phones, IPTables and Linux firewalls, and the Asterisk open source PBX software by Digium. You'll learn how to build an IP-based or legacy-compatible phone system and voicemail system complete with e-mail integration while becoming familiar with VoIP protocols and devices. *Switching to VoIP* remains vendor-neutral and advocates standards, not brands. Some of the standards explored include: SIP H.323, SCCP, and IAX Voice codecs 802.3af Type of Service, IP precedence, DiffServ, and RSVP 802.1a/b/g WLAN If VoIP has your attention, like so many others, then *Switching to VoIP* will help you build your own system, install it, and begin making calls. It's the only thing left between you and a modern telecom network. The book covers all the fundamentals of satellites, ground control systems, and earth stations, considering the design and operation of each major segment. You gain a practical understanding of the basic construction and usage of commercial satellite networks. How parts of a satellite system function, how various components interact, which role each component plays, and which factors are the most critical to success." Computerized databases provide a powerful everyday tool for data handling by scientists and engineers. However, the unique nature of many technical tasks requires a specialized approach to make use of the many powerful commercial database tools now available. Using these tools has proved

difficult because database technology is often shrouded in layers of jargon. An essential guide for scientists and engineers who use computers to avoid drowning in a flood of data, *Database Systems in Science and Engineering* dispels the myths associated with database design and breaks the barriers to successful databases. Using the language of scientists and engineers, this book explains concepts and problems, offers practical steps and solutions, and provides new ideas for better data handling. The first part of the book presents an overview of technical databases using examples taken from real applications and the current state of technical databases. The second part covers the computer implementation of technical databases, including examples and the necessary computer science theory to form a sound background. The authors confront the many difficulties that arise in the design and implementation of a realistic database and offer solutions to these challenges. Before beginning any database project, scientists and engineers should read this book to understand how to make every database project successful through careful planning, good design, and efficient use of database tools. New to this edition: Up-to-date information on on-line research and computer resources. A unique four-way access system enables users of the *Handbook of Technical Writing* to find what they need quickly and get on with the job of writing:

1. The hundreds of entries in the body of the *Handbook* are alphabetically arranged, so you can flip right to the topic at hand. Words and phrases in bold type provide cross-references to related entries.
2. The topical key groups alphabetical entries and page numbers under broader topic categories. This topical table of contents allows you to check broader subject areas for the specific topic you need.
3. The checklist of the writing process summarizes the opening essay on "Five Steps to Successful Writing" in checklist form with page references to related topics, making it easy to use the *Handbook* as a writing text.
4. The comprehensive index provides an exhaustive listing of related and commonly confused topics, so you can easily locate information even when you don't know the exact term you're looking for.

mental improvements during the same period. What is clearly needed in verification techniques and technology is the equivalent of a synthesis productivity breakthrough. In the second edition of *Writing Testbenches*, Bergeron raises the verification level of abstraction by introducing coverage-driven constrained-random transaction-level self-checking testbenches all made possible through the introduction of hardware verification languages (HVLs), such as e from Verisity and OpenVera from Synopsys. The state-of-art methodologies described in *Writing Test benches* will contribute greatly to the much-needed equivalent of a synthesis breakthrough in verification productivity. I not only highly recommend this book, but also I think it should be required reading by anyone involved in design and verification of today's ASIC, SoCs and systems. Harry

Foster Chief Architect Verplex Systems, Inc. xviii Writing
Testbenches: Functional Verification of HDL Models PREFACE If you
survey hardware design groups, you will learn that between 60% and 80%
of their effort is now dedicated to verification. For more than 40
years, Computerworld has been the leading source of technology news
and information for IT influencers worldwide. Computerworld's award-
winning Web site (Computerworld.com), twice-monthly publication,
focused conference series and custom research form the hub of the
world's largest global IT media network. Your one stop guide to making
the most out of Azure Cloud About This Book Get familiar with the
different design patterns available in Microsoft Azure Develop Azure
cloud architecture and a pipeline management system Get to know the
security best practices for your Azure deployment Who This Book Is For
If you are Cloud Architects, DevOps Engineers, or developers who want
to learn key architectural aspects of the Azure Cloud platform, then
this book is for you. Prior basic knowledge of the Azure Cloud
platform is good to have. What You Will Learn Familiarize yourself
with the components of the Azure Cloud platform Understand the cloud
design patterns Use enterprise security guidelines for your Azure
deployment Design and implement Serverless solutions See Cloud
architecture and the deployment pipeline Understand cost management
for Azure solutions In Detail Over the years, Azure cloud services has
grown quickly, and the number of organizations adopting Azure for
their cloud services is also gradually increasing. Leading industry
giants are finding that Azure fulfills their extensive cloud
requirements. This book will guide you through all the important and
tough decision-making aspects involved in architecting a Azure
public cloud for your organization. The book starts with an extensive
introduction to all the categories of designs available with Azure.
These design patterns focus on different aspects of cloud such as high
availability, data management, and so on. Gradually, we move on to
various aspects such as building your cloud structure and
architecture. It will also include a brief description about different
types of services provided by Azure, such as Azure functions and Azure
Analytics, which can prove beneficial for an organization. This book
will cover each and every aspect and function required to develop a
Azure cloud based on your organizational requirements. By the end of
this book, you will be in a position to develop a full-fledged Azure
cloud. Style and approach This hands-on guide to the Azure Cloud
platform covers different architectural concepts and implementations
necessary for any enterprise scale deployment.

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