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The next-generation IBM® c-type Directors and switches for IBM Storage Networking provides high-speed Fibre Channel (FC) and IBM Fibre Connection (IBM FICON®) connectivity from the IBM Z® platform to the storage area network (SAN) core. It enables enterprises to rapidly deploy high-density virtualized servers with the dual benefit of higher bandwidth and consolidation. This IBM Redpaper Redbooks publication helps administrators understand how to implement or migrate to an IBM c-type SAN environment. It provides an overview of the key hardware and software products, and it explains how to install, configure, monitor, tune, and troubleshoot your SAN environment.

The author of Zinn's Cycling Primer and The Mountain Bike Owner's Manual includes how to choose the right bike, instructions for regular care, proper installation of the newest ten- and eleven-speed chains, torque specifications for tightening delicate parts, and much more. Original.

Complete Mountain Bike Maintenance provides mountain bike enthusiasts with step-by-step guidance to maintaining and repairing their bikes, combining an easy-to-use format and design with high quality photographs of the latest equipment. The book guides the reader through every problem that may occur on a mountain bike and shows how to repair it. It also give tips on how to spot the early warning signs of trouble so that you can fix the problem before it you need to get involved with costly replacements. It is the perfect reference manual to have in your shed or workshop and also contain lots of tips on how to conduct quick repairs if you get into trouble while out on the road.

The Student's Guide to VHDL is a condensed edition of The Designer's Guide to VHDL, the most widely used textbook on VHDL for digital system modeling. The Student's Guide is targeted as a supplemental reference book for computer organization and digital design courses. Since publication of the first edition of The Student's Guide, the IEEE VHDL and related standards have been revised.

The Designer's Guide has been revised to reflect the changes, so it is appropriate that The Student's Guide also be revised. In The Student's Guide to VHDL, 2nd Edition, we have included a design case study illustrating an FPGA-based design flow. The aim is to show how VHDL modeling fits into a design flow, starting from high-level design and proceeding through detailed design and verification, synthesis, FPGA place and route, and final timing verification. Inclusion of the case study helps to better serve the educational market. Currently, most college courses do not formally address the details of design flow. Students may be given informal guidance on how to proceed with lab projects. In many cases, it is left to students to work it out for themselves. The case study in The Student's Guide provides a reference design flow that can be adapted to a variety of lab projects.

Learn how to make the wheels turn in this informative guide that provides solid instruction on choosing the best bicycle and the differences between road, touring, racing, and cross bikes.

The previous edition of this title was a bestseller, with 20,000 copies sold in three months. The A+ Core Module is required for all A+ certification candidates, and this book/CD-ROM set includes an exclusive test-preparation program and information resources to help students pass the test.

Modern cars are more computerized than ever. Infotainment and navigation systems, Wi-Fi, automatic software updates, and other innovations aim to make driving more convenient. But vehicle technologies haven't kept pace with today's more hostile security environment, leaving millions vulnerable to attack. The Car Hacker's Handbook will

give you a deeper understanding of the computer systems and embedded software in modern vehicles. It begins by examining vulnerabilities and providing detailed explanations of communications over the CAN bus and between devices and systems. Then, once you have an understanding of a vehicle's communication network, you'll learn how to intercept data and perform specific hacks to track vehicles, unlock doors, glitch engines, flood communication, and more. With a focus on low-cost, open source hacking tools such as Metasploit, Wireshark, Kayak, can-utils, and ChipWhisperer, The Car Hacker's Handbook will show you how to:

- Build an accurate threat model for your vehicle
- Reverse engineer the CAN bus to fake engine signals
- Exploit vulnerabilities in diagnostic and data-logging systems
- Hack the ECU and other firmware and embedded systems
- Feed exploits through infotainment and vehicle-to-vehicle communication systems
- Override factory settings with performance-tuning techniques
- Build physical and virtual test benches to try out exploits safely

If you're curious about automotive security and have the urge to hack a two-ton computer, make The Car Hacker's Handbook your first stop.

Bicycling magazine features bikes, bike gear, equipment reviews, training plans, bike maintenance how tos, and more, for cyclists of all levels.

NACTO's Urban Bikeway Design Guide quickly emerged as the preeminent resource for designing safe, protected bikeways in cities across the United States. It has been completely re-designed with an even more accessible layout. The Guide offers updated graphic profiles for all of its bicycle facilities, a subsection on bicycle boulevard planning and design, and a survey of materials used for green color

in bikeways. The Guide continues to build upon the fast-changing state of the practice at the local level. It responds to and accelerates innovative street design and practice around the nation.

Defines both technical and informal computer terms and explains the concept behind each term

bull; Updated edition of best-selling book (100,000 copies sold!) written by Charles J. Brooks of CompTIA's A+ Advisory Council. bull; Features Marcraft's Dynamic Test Tracking system - chapters, labs, and review questions updated online so the book is never out of date! bull; Exclusive voucher for 30% off on each exam, a \$75 savings!

This book provides a guide to Static Random Access Memory (SRAM) bitcell design and analysis to meet the nano-regime challenges for CMOS devices and emerging devices, such as Tunnel FETs. Since process variability is an ongoing challenge in large memory arrays, this book highlights the most popular SRAM bitcell topologies (benchmark circuits) that mitigate variability, along with exhaustive analysis. Experimental simulation setups are also included, which cover nano-regime challenges such as process variation, leakage and NBTI for SRAM design and analysis. Emphasis is placed throughout the book on the various trade-offs for achieving a best SRAM bitcell design. Provides a complete and concise introduction to SRAM bitcell design and analysis; Offers techniques to face nano-regime challenges such as process variation, leakage and NBTI for SRAM design and analysis; Includes simulation set-ups for extracting different design metrics for CMOS technology and emerging devices; Emphasizes different trade-offs for achieving the best possible SRAM bitcell design.

All-in-one guide plus videos prepares you for CompTIA's new A+ Certification Candidates aiming for CompTIA's revised, two-exam A+ Certified Track will find what they need in this value-packed book. Prepare for the required exam, CompTIA A+ Essentials (220-601), as well as your choice of one of three additional exams focusing on specific job roles--IT Technician (220-602), Remote Support Technician (220-603), or Depot Technician (220-603). This in-depth Deluxe Edition features instructional videos, thorough coverage of all objectives for all four exams, bonus practice exams, and more. Inside, you'll find: Comprehensive coverage of all exam objectives for all four exams in a systematic approach, so you can be confident you're getting the instruction you need CD with over an hour of instructional videos so you see how to perform key tasks Hand-on exercises to reinforce critical skills Real-world scenarios that put what you've learned in the context of actual job roles Challenging review questions in each chapter to prepare you for exam day Exam Essentials, a key feature at the end of each chapter that identifies critical areas you must become proficient in before taking the exams A handy fold-out that maps every official exam objective to the corresponding chapter in the book, so you can track your exam prep objective by objective Look inside for complete coverage of all exam objectives for all four CompTIA A+ exams. Featured on the CDs SYBEX TEST ENGINE: Test your knowledge with advanced testing software. Includes all chapter review questions and 12 total bonus exams. ELECTRONIC FLASHCARDS: Reinforce your understanding with flashcards that can run on your PC, Pocket PC, or Palm handheld. PRACTICE CD: Learn how to perform key tasks with over an hour of in-

structional videos on a bonus CD! Visit www.sybex.com for all of your CompTIA certification needs. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

The No-Drop Zone contains all the information necessary for new cyclists to gain the knowledge and skills to take them from buying their first bicycle to starting their first race. Cyclists learn how to handle the bike, perform minor maintenance, select clothing and accessories, join clubs, and find events. The book also covers every aspect of riding in a group, emphasizing such specific skills as how to avoid bumping into other riders when riding in close quarters and fixing a flat quickly enough to rejoin the group. Author Patrick Brady explores the particular pleasures that come from group riding, a unique experience at once social (talking with friends while riding), exciting (descending in a group), and exhilarating (finishing a long hill). Brady also details the enormous fitness benefits of riding in a group. The No-Drop Zone has all the knowledge a cyclist needs to move to that next level of skill.

More women than ever before are jumping on their saddles to enjoy one of the fastest growing sports in the country-and to improve cardiovascular fitness, control their weight, and liven up their social lives. At the same time, cycling remains very much a "man's sport," an intimidating world that can be difficult for women to navigate. Now celebrity spokeswoman Selene Yeager covers all the basics-for all ages and fitness levels. Women will learn... - How to find the perfect bike and other essential equipment - How to shift, spin, climb mountains, and get back down - Training techniques that take it up a notch - What to eat off-and on-a bike - Competition craziness-race infor-

mation and strategies - Why guys who work in bike shops act the way they do - And more!

VHDL, the IEEE standard hardware description language for describing digital electronic systems, has recently been revised. The Designer's Guide to VHDL has become a standard in the industry for learning the features of VHDL and using it to verify hardware designs. This third edition is the first comprehensive book on the market to address the new features of VHDL-2008. First comprehensive book on VHDL to incorporate all new features of VHDL-2008, the latest release of the VHDL standard Helps readers get up to speed quickly with new features of the new standard Presents a structured guide to the modeling facilities offered by VHDL Shows how VHDL functions to help design digital systems Includes extensive case studies and source code used to develop testbenches and case study examples Helps readers gain maximum facility with VHDL for design of digital systems

Sedona's Top 10 Hikes is a must have if you are at all interested in Sedona's easily accessible, magnificent out door landscape. This book is the best-designed hike book on Sedona, AZ. It features detailed travelogue type descriptions of the hikes, full color photos and detailed easy-to-follow maps, as well as GPS data that make this Sedona's most intense, beautiful and descriptive hike book. Also included in the book are drive times, geological information, photography pointers, information on ancient ruins in the area and a whole lot more. This beautiful book is full of details to assist you in making the most of your outdoor outing. The hikes are also rated from easiest to most strenuous, and include round-trip mileage and times, vortex notes and ideas for-

where to go after the hike. 112 pages. PCMag.com is a leading 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.

Provides study materials for the core module of the A++ certification exam, which tests the proficiency of computer service technicians

The BBB-4 Big Blue Book of Bicycle Repair by Calvin Jones is packed with easy-to-follow, step-by-step procedures, color photos and repair tips for keeping almost any road or off-road bike running smoothly and trouble-free. Whether it's repairing a flat tire, adjusting brakes and shifting systems, truing wheels, or maintaining hub, headset and bottom bracket bearing systems, the BBB-4 has you covered. Thoroughly researched and revised, the 4th edition of the Big Blue Book contains updated photos, torque specifications and troubleshooting tables, along with new content on wheel building, electronic shifting, 12-speed and 1X drivetrains, tubeless tires, disc brakes, headset and bottom bracket standards, and more. Truly an indispensable tool and reference source for both the novice and advanced bicycle mechanic.

The use of bicycles by police, EMS, and security personnel continues to grow along with increased awareness of the benefits of an extremely mobile team of first responders. While the reasons for implementing a bicycle unit may vary, the goal of each agency is the same: to provide assistance to those who need it as quickly, safely, and effectively as possible. In the past, officers and agencies seeking to get a public safety bike unit rolling had to look far and wide to assem-

ble the necessary information. The Complete Guide to Public Safety Cycling is the single comprehensive source of in-depth information on starting a bike unit or enhancing an established bike unit with tactical and technical tips on everything from basic equipment needs to detailed insights on policy, maintenance, training, legal issues, and much more.

This book features various, ultra low energy, variability resilient SRAM circuit design techniques for wireless sensor network applications. Conventional SRAM design targets area efficiency and high performance at the increased cost of energy consumption, making it unsuitable for computation-intensive sensor node applications. This book, therefore, guides the reader through different techniques at the circuit level for reducing energy consumption and increasing the variability resilience. It includes a detailed review of the most efficient circuit design techniques and trade-offs, introduces new memory architecture techniques, sense amplifier circuits and voltage optimization methods for reducing the impact of variability for the advanced technology nodes.

In this proven Sybex study guide, in-depth coverage of every exam objective is provided. The book includes practical information on essential hardware- and OS-related tasks, with hundreds of challenging review questions in the book and on the CD.

Written by expert trainers, this title has been completely updated for the upcoming revision of the A+ exam. The Test-Prep test simulation engine on CD features hundreds of questions which will familiarize reader with the test-taking situation.

Intelligent readers who want to build their own embedded computer systems--

installed in everything from cell phones to cars to handheld organizers to refrigerators-- will find this book to be the most in-depth, practical, and up-to-date guide on the market. Designing Embedded Hardware carefully steers between the practical and philosophical aspects, so developers can both create their own devices and gadgets and customize and extend off-the-shelf systems. There are hundreds of books to choose from if you need to learn programming, but only a few are available if you want to learn to create hardware. Designing Embedded Hardware provides software and hardware engineers with no prior experience in embedded systems with the necessary conceptual and design building blocks to understand the architectures of embedded systems. Written to provide the depth of coverage and real-world examples developers need, Designing Embedded Hardware also provides a road-map to the pitfalls and traps to avoid in designing embedded systems. Designing Embedded Hardware covers such essential topics as: The principles of developing computer hardware Core hardware designs Assembly language concepts Parallel I/O Analog-digital conversion Timers (internal and external) UART Serial Peripheral Interface Inter-Integrated Circuit Bus Controller Area Network (CAN) Data Converter Interface (DCI) Low-power operation This invaluable and eminently useful book gives you the practical tools and skills to develop, build, and program your own application-specific computers.

Provides information on how to choose the right bike, instructions for regular care, proper installation of the newest 10- and 11-speed chains, and torque specifications for tightening delicate parts. The bestselling guide to choosing a computer and getting online, fully updated

for Windows 8! Whether you use your computer for bookkeeping, making travel plans, socializing, shopping, or just plain fun, computers are now an essential part of daily life. But it can be overwhelming to keep up with the technology as it continually evolves. This clear, friendly guide not only gets you up to speed on computer basics, it also covers the very latest information, like the changes you'll see with Windows 8. You'll learn to use the keyboard and mouse, navigate the Windows 8 operating system, access the Internet, create documents, keep safe online, and more. Packed with screenshots and illustrations, the new edition of this popular book is easy to follow, never intimidating, and always helpful. Starts with the basics and assumes no prior knowledge of computers Updates your current skills for the latest technology changes, such as the Windows 8 operating system Explains how to connect to the Internet, keep up with family and friends via e-mail and social media, find recipes and health information, book travel, manage your budget, and much more Shows you how to organize documents, work with files and folders, manage pictures and videos, and customize your desktop and system Offers tips and advice to help you avoid common pitfalls Take on technology with confidence and take advantage of all your computer can do with Computers for Seniors For Dummies, 3rd Edition!

The fully revised and updated sixth edition of the best-selling guide to bike maintenance from the world's leading authority on cycling Whether they own the latest model or a classic with thousands of miles on it, beginner and experienced cyclists alike need a guide that will help them get their bikes out of the shop faster and keep them on the road longer.

For more than 20 years, The Bicycling Guide to Complete Bicycle Maintenance & Repair has done just that. With troubleshooting sections to quickly identify and correct common problems, 450 photographs and 40 drawings to clarify all the step-by-step directions so even the complete neophyte can get repairs right the first time, and websites and phone numbers of bicycle and parts manufacturers, this is truly the ultimate bicycle repair and maintenance manual. Now better than ever, the newest edition contains the latest information on component kits and carbon fork specifications.

From mountain bikes and road racers to hybrids, the Bicycle Repair Manual helps riders keep their bikes in peak condition.

Perfect for beginners and dedicated cyclists alike, this updated guide to bicycle repair includes the latest technological advances in cycling, troubleshooting charts, hints and tips for diagnosing and problem, and servicing schedules.

Provides information on upgrading computer memory, increasing speed, adding multimedia equipment, and more

February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications; September issue includes List of depository libraries; June and December issues include semiannual index

A guide to bicycle maintenance and repair covers frames, wheels, chains, gear shifts, tools, adjustments, and safety.