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Steve Bunting

Nuclear Experiments Using A Geiger Counter John Iovine,2020-02-17 This book illustrates a variety of nuclear experiments one can perform using a Geiger Counter. The experiments teach the fundamentals of nuclear science and particle physics. Beginning with an introduction to ionizing radiation and Geiger counters. The book explains the different types of radiation Geiger counters can detect and measure. The book explains the functions and reading available from the Geiger counter. How to read CPS and CPM measurements and use PC graphing software. The first experiment is on measuring background radiation. How to calculate the mean and standard deviation of the background radiation. The second experiment continues on to the Poisson distribution. Other experiments illustrate the difference between alpha, beta, x-ray and gamma radiation, shielding for radiation, detecting radioactivity in food, detecting radon in a closed environment, inverse square law, deflecting beta particles using magnetic and more.

Laboratory Microcomputer ,1984

National Measurement Laboratory United States. National Bureau of Standards, 1980

A Complete Guide to Programming in C++ Ulla Kirch-Prinz, Peter Prinz, 2002 This guide was written for readers interested in learning the C++ programming language from scratch, and for both novice and advanced C++ programmers wishing to enhance their knowledge of C++. The text is organized to guide the reader from elementary language concepts to professional software development, with in depth coverage of all the C++ language elements en route.

Code Charles Petzold, 2022-08-02 The classic guide to how computers work, updated with new chapters and interactive graphics For me, Code was a revelation. It was the first book about programming that spoke to me. It started with a story, and it built up, layer by layer, analogy by analogy, until I understood not just the Code, but the System. Code is a book that is as much about Systems Thinking and abstractions as it is about code and programming. Code teaches us how many unseen layers there are between the computer systems that we as users look at every day and the magical silicon rocks that we infused with lightning and taught to think. - Scott Hanselman, Partner Program Director, Microsoft, and host of Hanselminutes Computers are everywhere, most obviously in our laptops and smartphones, but also our cars, televisions, microwave ovens, alarm clocks, robot vacuum cleaners, and other smart appliances. Have you ever wondered what goes on inside these devices to make our lives easier but occasionally more infuriating? For more than 20 years, readers have delighted in Charles Petzold's illuminating story of the secret inner life of computers, and now he has revised it for this new age of computing. Cleverly illustrated and easy to understand, this is the book that cracks the mystery. You'll discover what flashlights, black cats, seesaws, and the ride of Paul Revere can teach you about computing, and how human ingenuity and our compulsion to communicate have shaped every electronic device we use. This new expanded edition explores more deeply the bit-by-bit and gate-by-gate construction of the heart of every smart device, the central processing unit that combines the simplest of basic operations to perform the most complex of feats. Petzold's companion website, CodeHiddenLanguage.com, uses animated graphics of key circuits in the book to make computers even easier to comprehend. In addition to substantially revised and updated content, new chapters include: Chapter 18: Let's Build a Clock! Chapter 21: The Arithm

Digital electronics: principles, devices and applications Dr. Malatesh Akkur, Dr. Basawaraj G Patne, Dr. Jyoti G, Mr. Vijay Kumar A. Patil, 2023-10-13 When people think of digital in today's context of technology, they generally picture a computer. It's hard to imagine a modern aspect of life that is not in some way impacted by the ubiquitous digital computer. Almost every aspect of our daily lives is managed by a massive computer system, from our bank and savings accounts to our cars, credit cards, income taxes, and even plane tickets. In addition to these enormous systems, almost anybody can afford a hand calculator, personal computer (PC) from IBM or an IBM clone, a computer from Apple's family of products, or any of a number of other desktop computer systems. There are many different applications for digital devices and integrated circuits, and Digital Electronics: Principles, Devices, and Applications covers them all. There are a number of ways in which it stands apart from other publications that cover the same material. Diagrams & design examples are abundant in each chapter of the book, whether they deal with operational basics or practical applications. The book also includes numerous new sections that are relevant to anybody interested in digital electronics but are not included in the existing canon of literature on the subject. This book is designed to be an excellent resource for professionals, R&D scientists, and advanced-level students in the fields of electrical, electronics, computer science, and information technology, as well as undergraduate and graduate students in these fields of study.

Data Conversion Handbook Walt Kester, Analog Devices Inc., Engineeri, Analog Devices, inc, 2005 This complete update of a classic handbook originally created by Analog Devices and never previously published offers the most complete and up-to-date reference available on data conversion, from the world authority on the subject. It describes in depth the theory behind and the practical design of data conversion circuits. It describes the different architectures used in A/D and D/A converters - including many advances that have been made in this technology in recent years - and provides guidelines on which types are best suited for particular applications. It covers error characterization and testing specifications, essential design information that is difficult to find elsewhere. The book also contains a wealth of practical application circuits for interfacing and supporting A/D and D/A converters within an electronic system. In short, everything an electronics engineer needs to know about data converters can be found in this volume, making it an indispensable reference with broad appeal. The accompanying CD-ROM provides software tools for testing and analyzing data converters as well as a searchable pdf version of the text. * brings together a huge amount of information impossible to locate elsewhere. * many recent advances in converter technology simply aren't covered in any other book. * a must-have design reference for any electronics design engineer or technician

<u>Arduino Cookbook</u> Michael Margolis,2012 Create your own robots, toys, remote controllers, alarms, detectors, and more with the Arduino device. This simple microcontroller has become popular for building a variety of objects that interact with the physical world. These recipes provide solutions for the most common problems and questions Arduino users have.

Digital Design with Chisel Martin Schoeberl,2019-08-30 This book is an introduction into digital design with the focus on using the hardware construction language Chisel. Chisel brings advances from software engineering, such as object-orientated and functional languages, into digital design. This book addresses hardware designers and software engineers. Hardware designers, with knowledge of Verilog or VHDL, can upgrade their productivity with a modern language for their next ASIC or FPGA design. Software engineers, with knowledge of object-oriented and functional programming, can leverage their knowledge to program hardware, for example, FPGA accelerators executing in the cloud. The approach of this book is to present small to medium-sized typical hardware components to explore digital design with Chisel.

Energy Research Abstracts, 1978

The Shellcoder's Handbook Chris Anley, John Heasman, Felix Lindner, Gerardo Richarte, 2011-02-16 This much-anticipated revision, written by the ultimate group of top security experts in the

world, features 40 percent new content on how to find security holes in any operating system or application New material addresses the many new exploitation techniques that have been discovered since the first edition, including attacking unbreakable software packages such as McAfee's Entercept, Mac OS X, XP, Office 2003, and Vista Also features the first-ever published information on exploiting Cisco's IOS, with content that has never before been explored The companion Web site features downloadable code files

Programming Interactivity Joshua Noble, 2009-07-21 Make cool stuff. If you're a designer or artist without a lot of programming experience, this book will teach you to work with 2D and 3D graphics, sound, physical interaction, and electronic circuitry to create all sorts of interesting and compelling experiences -- online and off. Programming Interactivity explains programming and electrical engineering basics, and introduces three freely available tools created specifically for artists and designers: Processing, a Java-based programming language and environment for building projects on the desktop, Web, or mobile phones Arduino, a system that integrates a microcomputer prototyping board, IDE, and programming language for creating your own hardware and controls OpenFrameworks, a coding framework simplified for designers and artists, using the powerful C++ programming language BTW, you don't have to wait until you finish the book to actually make something. You'll get working code samples you can use right away, along with the background and technical information you need to design, program, build, and troubleshoot your own projects. The cutting edge design techniques and discussions with leading artists and designers will give you the tools and inspiration to let your imagination take flight.

Michael Abrash's Graphics Programming Black Book Michael Abrash, 1997 No one has done more to conquer the performance limitations of the PC than Michael Abrash, a software engineer for Microsoft. His complete works are contained in this massive volume, including everything he has written about performance coding and real-time graphics. The CD-ROM contains the entire text in Adobe Acrobat 3.0 format, allowing fast searches for specific facts.

PC Mag ,1988-07 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.

Hacking- The art Of Exploitation J. Erickson, 2018-03-06 This text introduces the spirit and theory of hacking as well as the science behind it all; it also provides some core techniques and tricks of hacking so you can think like a hacker, write your own hacks or thwart potential system attacks.

Microcontrollers Julio Sanchez, Maria P. Canton, 2016-04-19 Focusing on the line of high-performance microcontrollers offered by Microchip, Microcontrollers: High-Performance Systems and Programming discusses the practical factors that make the high-performance PIC series a better choice than their mid-range predecessors for most systems. However, one consideration in favor of the mid-range devices is the abundance of published application circuits and code samples. This book fills that gap. Possibility of programming high-performance microcontrollers in a high-level language (C language) Source code compatibility with PIC16 microcontrollers, which facilitates code migration from mid-range to PIC18 devices Pin compatibility of some PIC18 devices with their PIC16 predecessors, making the reuse of PIC16 controllers in circuits originally designed for mid-range hardware possible Designed to be functional and hands-on, this book provides sample circuits with their corresponding programs. It clearly depicts and labels the circuits, in a way that is easy to follow and reuse. Each circuit includes a parts list of the resources and components required for its fabrication. The book matches sample programs to the individual circuits, discusses general programming techniques, and includes appendices with useful information.

The Internet of Things Olivier Hersent, David Boswarthick, Omar Elloumi, 2011-12-19 An all-in-one reference to the major Home Area Networking, Building Automation and AMI protocols, including 802.15.4 over radio or PLC, 6LowPAN/RPL, ZigBee 1.0 and Smart Energy 2.0, Zwave, LON, BACNet, KNX, ModBus, mBus, C.12 and DLMS/COSEM, and the new ETSI M2M system level standard. In-depth coverage of Smart-grid and EV charging use cases. This book describes the Home Area Networking, Building Automation and AMI protocols and their evolution towards open protocols based on IP such as 6LowPAN and ETSI M2M. The authors discuss the approach taken by service providers to interconnect the protocols and solve the challenge of massive scalability of machine-to-machine communication for mission-critical applications, based on the next generation machine-to-machine ETSI M2M architecture. The authors demonstrate, using the example of the smartgrid use case, how the next generation utilities, by interconnecting and activating our physical environment, will be able to deliver more energy (notably for electric vehicles) with less impact on our natural resources. Key Features: Offers a comprehensive overview of major existing M2M and AMI protocols Covers the system aspects of large scale M2M and smart grid applications Focuses on system level architecture, interworking, and nationwide use cases Explores recent emerging technologies: 6LowPAN, ZigBee SE 2.0 and ETSI M2M, and for existing technologies recent developments related to interworking Relates ZigBee to the issue of smartgrid, in the more general context of carrier grade M2M applications and utility projects, system engineers and developers, networking companies, and home automation companies. It will also be of use to senior academic researchers, students, and policy makers and regulators.

EnCase Computer Forensics -- The Official EnCE Steve Bunting,2012-09-14 The official, Guidance Software-approved book on the newest EnCE exam! The EnCE exam tests that computer forensic analysts and examiners have thoroughly mastered computer investigation methodologies, as well as the use of Guidance Software's EnCase Forensic 7. The only official Guidance-endorsed study guide on the topic, this book prepares you for the exam with extensive coverage of all exam topics, real-world scenarios, hands-on exercises, up-to-date legal information, and sample evidence files, flashcards, and more. Guides readers through preparation for the newest EnCase Certified Examiner (EnCE) exam Prepares candidates for both Phase 1 and Phase 2 of the exam, as well as for practical use of the certification Covers identifying and searching hardware and files systems, handling evidence on the scene, and acquiring digital evidence using EnCase Forensic 7 Includes hands-on exercises, practice questions, and up-to-date legal information Sample evidence files, Sybex Test Engine, electronic flashcards, and more If you're preparing for the new EnCE exam, this is the study guide you need.

Embedded Networking with CAN and CANopen Olaf Pfeiffer, Andrew Ayre, Christian Keydel, 2008 CAN (Controller Area Network) is a serial communication protocol that was originally developed for the automobile industry. CAN is far superior to conventional serial technologies such as RS232 in regards to functionality and reliability and yet CAN implementations are more cost effective. CANopen, a higher layer protocol based on CAN, provides the means to apply the ingenious CAN features to a variety of industrial-strength applications. Many users, for example in the field of medical engineering, opted for CANopen because they have to meet particularly stringent safety requirements. Similar requirements had to be considered by manufacturers of other equipment with very high safety or reliability requirements (e.g. robots, lifts and transportation systems). Providing a detailed look at both CAN and CANopen, this book examines those technologies in the context of embedded networks. There is an overview of general embedded networking and an introduction to the primary functionality provided by CANopen. Everything one needs to know to configure and operate a CANopen network using off-the-shelf components is described, along with details for those designers who want to build their own CANopen nodes. The wide variety of applications for CAN and CANopen is discussed, and instructions in developing embedded networks based on the protocol are included. In addition, references and examples using MicroCANopen, PCANopen Magic, and Vector's high-end development tools are provided.

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