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MOONEY CHARLES

The Research of Data Transmission Technology in Measurement While Drilling Springer Nature

This volume includes extended and revised versions of a set of selected papers from the International Conference on Electric and Electronics (EEIC 2011), held on June 20-22, 2011, which is jointly organized by Nanchang University, Springer, and IEEE IAS Nanchang Chapter. The objective of EEIC 2011 Volume 3 is to provide a major interdisciplinary forum for the presentation of new approaches from Electrical Power Systems and Computers, to foster integration of the latest developments in scientific research. 133 related topic papers were selected into this volume. All the papers were reviewed by 2 program committee members and selected by the volume editor Prof. Xiaofeng Wan. We hope every participant can have a good opportunity to exchange their research ideas and results and to discuss the state of the art in the areas of the Electrical Power Systems and Computers.

Arduino for Ham Radio Springer Science & Business Media

Learn how to use microcontrollers without all the frills and math. This book uses a practical approach to show you how to develop embedded systems with 8 bit PIC microcontrollers using the XC8 compiler. It's your complete guide to understanding modern PIC microcontrollers. Are you tired of copying and pasting code into your embedded projects? Do you want to write your own code from scratch for microcontrollers and understand what your code is doing? Do you want to move beyond the Arduino? Then Programming PIC Microcontrollers with XC8 is for you! Written for those who want more than an Arduino, but less than the more complex microcontrollers on the market, PIC microcontrollers are the next logical step in your journey. You'll also see the advantage that MPLAB X offers by running on Windows, MAC and Linux environments. You don't need to be a command line expert to work with PIC microcontrollers, so you can focus less on setting up your environment and more on your application. What You'll Learn Set up the MPLAB X and XC8 compilers for microcontroller development Use GPIO and PPS Review EUSART and Software UART communications Use the eXtreme Low Power (XLP) options of PIC microcontrollers Explore wireless communications with WiFi and Bluetooth Who This Book Is For Those with some basic electronic device and some electronic equipment and knowledge. This book assumes knowledge of the C programming language and basic knowledge of digital electronics though a basic overview is given for both. A complete newcomer can follow along, but this book is heavy on code, schematics and images and focuses less on the theoretical aspects of using microcontrollers. This book is also targeted to students wanting a practical overview of microcontrollers outside of the classroom.

EDN □□□□□□□□□□

This timely and exhaustive study offers a much-needed examination of the scope and consequences of the electronic

counterfeit trade. The authors describe a variety of shortcomings and vulnerabilities in the electronic component supply chain, which can result in counterfeit integrated circuits (ICs). Not only does this book provide an assessment of the current counterfeiting problems facing both the public and private sectors, it also offers practical, real-world solutions for combatting this substantial threat. · Helps beginners and practitioners in the field by providing a comprehensive background on the counterfeiting problem; · Presents innovative taxonomies for counterfeit types, test methods, and counterfeit defects, which allows for a detailed analysis of counterfeiting and its mitigation; · Provides step-by-step solutions for detecting different types of counterfeit ICs; · Offers pragmatic and practice-oriented, realistic solutions to counterfeit IC detection and avoidance, for industry and government.

The Hacker's Hardware Toolkit Springer

World Congress on Medical Physics and Biomedical Engineering September 7 - 12, 2009 Munich, Germany Springer Science & Business Media

4th European Conference of the International Federation for Medical and Biological Engineering 23 - 27 November 2008, Antwerp, Belgium Springer

This book presents the scientific outcomes of the conference 11th Days of Bosnian-Herzegovinian American Academy of Arts and Sciences, held in Sarajevo, Bosnia and Herzegovina, June 20-23, 2019. Including innovative applications of advanced technologies, it offers a uniquely comprehensive, multidisciplinary and interdisciplinary overview of the latest developments in a broad range of technologies and methodologies, viewed through the prism of computing, networking, information technology, robotics, complex systems, communications, energy, mechanical engineering, economics and medicine, among others.

Advanced Heat and Mass Transfer Newnes

This book features high-quality papers presented at the International Conference on Computational Intelligence and Informatics (ICCI 2018), which was held on 28-29 December 2018 at the Department of Computer Science and Engineering, JNTUH College of Engineering, Hyderabad, India. The papers focus on topics such as data mining, wireless sensor networks, parallel computing, image processing, network security, MANETS, natural language processing and Internet of things.

Data Conversion Handbook Springer Science & Business Media

Robert Lacoste's The Darker Side column has quickly become a must read among Circuit Cellar devotees. His column provides readers with succinct theoretical concepts and practical applications on topics as far reaching as digital modulation to antenna basics. Difficult concepts are demystified as Robert shines a light on complex topics within electronic design. This book collects sixteen Darker Side articles that have been enriched with new, exclusive content from the author. An intro into The Darker Side will give examples of material that can enhance and optimize the way you design. A Scilab tutorial along with Scilab software and all project material will be included with this package so that all projects can be tackled hands-on. It's

time to stop being afraid of the dark, let this book easily guide you through the time-draining, problematic elements of your application design. Tips and tricks to enhance design performance Practical advice on topics from digital signal design to electromagnetic interference

Forrest Mims Engineer's Notebook Apress

Comprehensive Materials Processing provides students and professionals with a one-stop resource consolidating and enhancing the literature of the materials processing and manufacturing universe. It provides authoritative analysis of all processes, technologies, and techniques for converting industrial materials from a raw state into finished parts or products. Assisting scientists and engineers in the selection, design, and use of materials, whether in the lab or in industry, it matches the adaptive complexity of emergent materials and processing technologies. Extensive traditional article-level academic discussion of core theories and applications is supplemented by applied case studies and advanced multimedia features. Coverage encompasses the general categories of solidification, powder, deposition, and deformation processing, and includes discussion on plant and tool design, analysis and characterization of processing techniques, high-temperatures studies, and the influence of process scale on component characteristics and behavior. Authored and reviewed by world-class academic and industrial specialists in each subject field Practical tools such as integrated case studies, user-defined process schemata, and multimedia modeling and functionality Maximizes research efficiency by collating the most important and established information in one place with integrated applets linking to relevant outside sources

Programming from the Ground Up Springer Science & Business Media

This comprehensive handbook is a one-stop engineering reference. Covering data converter fundamentals, techniques, applications, and beginning with the basic theoretical elements necessary for a complete understanding of data converters, this reference covers all the latest advances in the field. This text describes in depth the theory behind and the practical design of data conversion circuits as well as describing the different architectures used in A/D and D/A converters. Details are provided on the design of high-speed ADCs, high accuracy DACs and ADCs, and sample-and-hold amplifiers. Also, this reference covers voltage sources and current reference, noise-shaping coding, and sigma-delta converters, and much more. The book's 900-plus pages are packed with design information and application circuits, including guidelines on selecting the most suitable converters for particular applications. You'll find the very latest information on: · Data converter fundamentals, such as key specifications, noise, sampling, and testing · Architectures and processes, including SAR, flash, pipelined, folding, and more · Practical hardware design techniques for mixed-signal systems, such as driving ADCs, buffering DAC outputs, sampling clocks, layout, interfacing, support circuits, and tools. · Data converter applications dealing with precision measurement, data acquisition, audio, display, DDS, software radio and many more. 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.

Electronics Projects with the ESP8266 and ESP32 Routledge
Programming from the Ground Up uses Linux assembly language to teach new programmers the most important concepts in

programming. It takes you a step at a time through these concepts: * How the processor views memory * How the processor operates * How programs interact with the operating system * How computers represent data internally * How to do low-level and high-level optimization Most beginning-level programming books attempt to shield the reader from how their computer really works. Programming from the Ground Up starts by teaching how the computer works under the hood, so that the programmer will have a sufficient background to be successful in all areas of programming. This book is being used by Princeton University in their COS 217 "Introduction to Programming Systems" course.

Advances in Electrodermal Activity Processing with Applications for Mental Health Arm Education Media

This book is for musical makers and artists who want to gain knowledge and inspiration for your own amazing creations. "Grumpy Mike" Cook, co-author of several books on the Raspberry Pi and frequent answerer of questions of the Arduino forums, brings you a fun and instructive mix and simple and complex projects to help you understand how the Arduino can work with the MIDI system to create musical instruments and manipulate sound. In Part I you'll find a set of projects to show you the possibilities of MIDI plus Arduino, covering both the hardware and software aspects of creating musical instruments. In Part II, you learn how to directly synthesize a wave form to create your own sounds with Arduino and concludes with another instrument project: the SpoonDuino. Finally, in Part III, you'll learn about signal processing with the Arduino Uno and the Due — how to create effects like delay, echo, pitch changes, and realtime backwards audio output. /divIf you want to learn more about how to create music, instruments, and sound effects with Arduino, then get on board for Grumpy Mike's grand tour with Arduino Music and Sound Projects.

MicroPython Projects Springer Science & Business Media

This volume includes extended and revised versions of a set of selected papers from the International Conference on Electric and Electronics (EEIC 2011), held on June 20-22, 2011, which is jointly organized by Nanchang University, Springer, and IEEE IAS Nanchang Chapter. The objective of EEIC 2011 Volume 1 is to provide a major interdisciplinary forum for the presentation of new approaches from Electronics and Signal Processing, to foster integration of the latest developments in scientific research. 133 related topic papers were selected into this volume. All the papers were reviewed by 2 program committee members and selected by the volume editor Prof. Wensong Hu. We hope every participant can have a good opportunity to exchange their research ideas and results and to discuss the state of the art in the areas of the Electronics and Signal Processing.

Advances in Electronic Engineering, Communication and Management Vol.1 Springer Science & Business Media

Sensors are used to measure physical, chemical and biological quantities. The book offers a comprehensive overview of physical principles, functions and applications of sensors. It is structured according to the fields of activity of sensors and shows their application by means of typical examples. Measured variables that can be recorded by sensors are e.g. mechanical, dynamic, thermal, electrical and magnetic. Furthermore, optical and acoustical sensors are discussed in detail in the book. The sensor signals are recorded, processed and converted into control signals for actuators. Such sensor systems are also presented. This book is a translation of the original German 2nd edition Sensoren in Wissenschaft und Technik by Ekbert Hering, published by Springer Fachmedien Wiesbaden GmbH, part of Springer Nature in 2017. The translation was done with the help of artificial intelligence (machine translation by the service

DeepL.com). A subsequent human revision was done primarily in terms of content, so that the book will read stylistically differently from a conventional translation. Springer Nature works continuously to further the development of tools for the production of books and on the related technologies to support the authors. The Content Fundamentals of sensor systems · Physical effects for sensor use · Measured variables that can be recorded by sensors · Mechanical measured variables · Thermal measured variables · Electrical and magnetic measured variables · Optical measured variables · Acoustic measured variables · Climatic and meteorological measured variables · Chemical measured variables · Biological and medical measured variables

The Target Groups " Engineers and natural scientists in practice " Students and lecturers at universities " Experts in the field of sensor technology

The Authors Prof. Dr. Dr. Ekbert Hering has been teaching physics, electronics, photonics and business administration at Aalen University since 1971. He was rector of the university, served on various supervisory boards and was the author of 70 textbooks, 45 of which were published by Springer Vieweg. Dr.-Ing. Gert Schönfelder received his doctorate in digital measurement technology. He worked in the field of computer architecture, image-based measurement technology (stereo) and system design of cameras and measurement technology. Since 8 years he is head of development at a manufacturer of pressure sensors.

Advanced Technologies, Systems, and Applications IV - Proceedings of the International Symposium on Innovative and Interdisciplinary Applications of Advanced Technologies (IAT 2019) World Congress on Medical Physics and Biomedical Engineering September 7 - 12, 2009 Munich, Germany

This book explores Autonomic Nervous System (ANS) dynamics as investigated through Electrodermal Activity (EDA) processing. It presents groundbreaking research in the technical field of biomedical engineering, especially biomedical signal processing, as well as clinical fields of psychometrics, affective computing, and psychological assessment. This volume describes some of the most complete, effective, and personalized methodologies for extracting data from a non-stationary, nonlinear EDA signal in order to characterize the affective and emotional state of a human subject. These methodologies are underscored by discussion of real-world applications in mood assessment. The text also examines the physiological bases of emotion recognition through noninvasive monitoring of the autonomic nervous system. This is an ideal book for biomedical engineers, physiologists, neuroscientists, engineers, applied mathematicians, psychiatric and psychological clinicians, and graduate students in these fields. This book also: Expertly introduces a novel approach for EDA analysis based on convex optimization and sparsity, a topic of rapidly increasing interest Authoritatively presents groundbreaking research achieved using EDA as an exemplary biomarker of ANS dynamics Deftly explores EDA's potential as a source of reliable and effective markers for the assessment of emotional responses in healthy subjects, as well as for the recognition of pathological mood states in bipolar patients

Handmade Electronic Music Packt Publishing Ltd

This comprehensive handbook is a one-stop engineering reference. Covering data converter fundamentals, techniques, applications, and beginning with the basic theoretical elements necessary for a complete understanding of data converters, this reference covers all the latest advances in the field. This text describes in depth the theory behind and the practical design of data conversion circuits as well as describing the different architectures used in A/D and D/A converters. Details are provided on the design of high-speed ADCs, high accuracy DACs and ADCs, and sample-and-hold amplifiers. Also, this reference

covers voltage sources and current reference, noise-shaping coding, and sigma-delta converters, and much more. The book's 900-plus pages are packed with design information and application circuits, including guidelines on selecting the most suitable converters for particular applications. You'll find the very latest information on: · Data converter fundamentals, such as key specifications, noise, sampling, and testing · Architectures and processes, including SAR, flash, pipelined, folding, and more · Practical hardware design techniques for mixed-signal systems, such as driving ADCs, buffering DAC outputs, sampling clocks, layout, interfacing, support circuits, and tools. · Data converter applications dealing with precision measurement, data acquisition, audio, display, DDS, software radio and many more. 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.

Direct Digital Frequency Synthesizers John Wiley & Sons

All relevant advanced heat and mass transfer topics in heat conduction, convection, radiation, and multi-phase transport phenomena, are covered in a single textbook, and are explained from a fundamental point of view.

Programming PIC Microcontrollers with XC8 Prentice Hall

This book covers a variety of smart IoT applications for industry and research. For industry, the book is a guide for considering the real-time aspects of automation of application domains. The main topics covered in the industry section include real-time tracking and navigation, smart transport systems and application for GPS domains, modern electric grid control for electricity industry, IoT perspectives for modern society, IoT for modern medical science, and IoT automation for Industry 4.0. The book then provides a summary of existing IoT research that underlines enabling technologies, such as fog computing, wireless sensor networks, data mining, context awareness, real-time analytics, virtual reality, and cellular communications. The book pertains to researchers, outcome-based academic leaders, as well as industry leaders.

Sensors in Science and Technology Springer Nature

Handmade Electronic Music: The Art of Hardware Hacking provides a long-needed, practical, and engaging introduction for students of electronic music, installation and sound-art to the craft of making--as well as creatively cannibalizing--electronic circuits for artistic purposes. Designed for practioners and students of electronic art, it provides a guided tour through the world of electronics, encouraging artists to get to know the inner workings of basic electronic devices so they can creatively use them for their own ends. *Handmade Electronic Music* introduces the basic of practical circuitry while instructing the student in basic electronic principles, always from the practical point of view of an artist. It teaches a style of intuitive and sensual experimentation that has been lost in this day of prefabricated electronic musical instruments whose inner workings are not open to experimentation. It encourages artists to transcend their fear of electronic technology to launch themselves into the pleasure of working creatively with all kinds of analog circuitry.

Data Conversion Handbook Apress

This book presents the proceedings of the 13th International Conference on Electrical Bioimpedance, ICEBI 2007, combined with the 8th Conference on Electrical Impedance Tomography, held at the Graz University of Technology in Graz, Austria, in August 2007.

Electrical Power Systems and Computers Oxford University Press

It's an exciting time to get involved with MicroPython, the re-implementation of Python 3 for microcontrollers and embedded systems. This practical guide delivers the knowledge you need to roll up your sleeves and create exceptional embedded projects with this lean and efficient programming language. If you're familiar with Python as a programmer, educator, or maker, you're ready to learn—and have fun along the way. Author Nicholas Tollervey takes you on a journey from first steps to advanced projects. You'll explore the types of devices that run MicroPython, and examine how the language uses and interacts with hardware

to process input, connect to the outside world, communicate wirelessly, make sounds and music, and drive robotics projects. Work with MicroPython on four typical devices: PyBoard, the micro:bit, Adafruit's Circuit Playground Express, and ESP8266/ESP32 boards Explore a framework that helps you generate, evaluate, and evolve embedded projects that solve real problems Dive into practical MicroPython examples: visual feedback, input and sensing, GPIO, networking, sound and music, and robotics Learn how idiomatic MicroPython helps you express a lot with the minimum of resources Take the next step by getting involved with the Python community