

Attuatori Per Maker Movimento, Luce E Suono Con Arduino E Raspberry Pi

It used to take years or even decades for disruptive innovations to dethrone dominant products and services. But now any business can be devastated virtually overnight by something better and cheaper. How can executives protect themselves and harness the power of Big Bang Disruption? Just a few years ago, drivers happily spent more than \$200 for a GPS unit. But as smartphones exploded in popularity, free navigation apps exceeded the performance of stand-alone devices. Eighteen months after the debut of the navigation apps, leading GPS manufacturers had lost 85 percent of their market value. Consumer electronics and computer makers have long struggled in a world of exponential technology improvements and short product life spans. But until recently, hotels, taxi services, doctors, and energy companies had little to fear from the information revolution. Those days are gone forever. Software-based products are replacing physical goods. And every service provider must compete with cloud-based tools that offer customers a better way to interact. Today, start-ups with minimal experience and no capital can unravel your strategy before you even begin to grasp what ’ s happening. Never mind the “ innovator ’ s dilemma ” —this is the innovator ’ s disaster. And it ’ s happening in nearly every industry. Worse, Big Bang Disruptors may not even see you as competition. They don ’ t share your approach to customer service, and they ’ re not sizing up your product line to offer better prices. You may simply be collateral damage in their efforts to win completely different markets. The good news is that any business can master the strategy of the start-ups. Larry Downes and Paul Nunes analyze the origins, economics, and anatomy of Big Bang Disruption. They identify four key stages of the new innovation life cycle, helping you spot potential disruptors in time. And they offer twelve rules for defending your markets, launching disruptors of your own, and getting out while there ’ s still time. Based on extensive research by the Accenture Institute for High Performance and in-depth interviews with entrepreneurs, investors, and executives from more than thirty industries, Big Bang Disruption will arm you with strategies and insights to thrive in this brave new world.

Presents an introduction to the open-source electronics prototyping platform.

We live in a period marked by the ascendancy of corporations. At the same time, the number of non-governmental organizations (NGOs) – such as Amnesty International, CARE, Greenpeace, Oxfam, Save the Children, and the WWF – has rapidly increased in the last twenty years. As a result, these two very different types of organization are playing an increasingly important role in shaping our society, yet they often have very different agendas. This book focuses on the dynamic interactions, both conflictual and collaborative, that exist between corporations and NGOs. It includes rigorous models, frameworks, and case studies to document the various ways that NGOs target corporations through boycotts, proxy campaigns, and other advocacy initiatives. It also explains the emerging pattern of cross-sectoral alliances and partnerships between corporations and NGOs. This book can help managers, activists, scholars, and students to better understand the nature, scope, and evolution of these complex interactions.

In this TAB book, bestselling electronics author Simon Monk shows maker-entrepreneurs how to use Fritzing ’ s open-source software and services to create electronics prototypes, design and manufacture printed circuit boards (PCBs), and bring professional-quality electronic products to market. Fritzing for Inventors: Take Your Electronics Project from Prototype to Product explains how to use this set of free, open-source electronics prototyping tools to lay out breadboards, create schematics, and design professional-quality printed circuit boards (PCBs). No engineering skills needed! Whether you ’ re a hobbyist, artist, inventor, or student, you ’ ll be able to develop a product from schematic to prototype to professional-quality printed circuit board, all from one easy-to-use software package. Fritzing works well with prototyping boards such as Arduino, Raspberry Pi, and BeagleBone. This DIY guide covers the whole lifecycle of product development for a hobbyist entrepreneur. It takes you from initial concept, to prototyping, to PCB production, to distribution. Along the way, it examines the sourcing of components, product testing, and even how to price products for wholesale and retail. Simon Monk is a bestselling TAB electronics author and popular presenter at MakerFaires Well-illustrated tutorial with screen captures, easy-to-follow instructions, and step-by-step projects Describes an up-to-date contemporary approach to PCB design, including surface-mount designs Explains how to become a maker entrepreneur by using crowdfunding and indie marketplaces for technical products

123design Per La Stampa 3D

Progetti per maker con Arduino

A Designer’s Guide to Processing, Arduino, and Openframeworks

Mecanica degli Azionamenti

Spontaneous Activity in Education

Programming Interactivity

This book offers a concise review of quantum radar theory. Our approach is pedagogical, making emphasis on the physics behind the operation of a hypothetical quantum radar. We concentrate our discussion on the two major models proposed to date: interferometric quantum radar and quantum illumination. In addition, this book offers some new results, including an analytical study of quantum interferometry in the X-band radar region with a variety of atmospheric conditions, a derivation of a quantum radar equation, and a discussion of quantum radar jamming. This book assumes the reader is familiar with the basic principles of non-relativistic quantum mechanics, special relativity, and classical electrodynamics. Our discussion of quantum electrodynamics and its application to quantum radar is brief, but all the relevant equations are presented in the text. In addition, the reader is not required to have any specialized knowledge on classical radar theory. Table of Contents: Introduction / The Photon / Photon Scattering / Classical Radar Theory / Quantum Radar Theory / Quantum Radar Cross Section / Conclusions

With millions of new users and several new models, the Raspberry Pi ecosystem continues to expand—along with a lot of new questions about the Pi’s capabilities. The second edition of this popular cookbook provides more than 240 hands-on recipes for running this tiny low-cost computer with Linux, programming it with Python, and hooking up sensors, motors, and other hardware—including Arduino and the Internet of Things. Prolific hacker and author Simon Monk also teaches basic principles to help you use new technologies with Raspberry Pi as its ecosystem continues to develop. This cookbook is ideal for programmers and hobbyists familiar with the Pi through resources, including Getting Started with Raspberry Pi (O’Reilly). Python and other code examples from the book are available on GitHub. Set up your Raspberry Pi and connect to a network Work with its Linux-based operating system Program Raspberry Pi with Python Give your Pi “eyes” with computer vision Control hardware through the GPIO connector Use Raspberry Pi to run different types of motors Work with switches, keyboards, and other digital inputs Use sensors to measure temperature, light, and distance Connect to IoT devices in various ways Create dynamic projects with Arduino The Maker’s Manual is a practical and comprehensive guide to becoming a hero of the new industrial revolution. It features dozens of color images, techniques to transform your ideas into physical projects, and must-have skills like electronics prototyping, 3d printing, and programming. This book’s clear, precise explanations will help you unleash your creativity, make successful projects, and work toward a sustainable maker business. Written by the founders of Frankenstein Garage, which has organized courses since 2011 to help makers to realize their creations. The Maker’s Manual answers your questions about the Maker Movement that is revolutionizing the way we design and produce things.

An up-to-date guide to creating your own fun and useful Raspberry PiTM programs This fully updated guide shows how to create inventive programs and fun games on your powerful Raspberry Pi—with no programming experience required. Programming the Raspberry PiTM: Getting Started with Python, Third Edition addresses physical changes and new setup procedures as well as OS updates to the current version 4. You will discover how to configure hardware and software, write Python scripts, create user-friendly GUIs, and control external electronics. Step-by-step projects include a digital clock prototype and a fully functioning Raspberry Pi robot. Configure your Raspberry Pi and explore its features Start writing and debugging Python programs Use strings, lists, functions, and dictionaries Work with modules, classes, and methods Apply object-oriented development methods Create user-friendly games using Pygame Build intuitive user interfaces with quizero Interface with hardware using the gpiozero library Attach external electronics through the GPIO port Add powerful Web features to your projects

Raspberry Pi Cookbook

Strategy in the Age of Devastating Innovation

Arduino + Android Projects for the Evil Genius: Control Arduino with Your Smartphone or Tablet

Meridiana

Emerging Research and Opportunities

My Pedagogic Creed, by Prof. John Dewey; Also, the Demands of Sociology Upon Pedagogy, by Prof. Albion W. Small.

In questo libro, attraverso una progressione di progetti, vengono affrontati i temi più importanti per chi vuole diventare un Maker, realizzando prototipi completi, funzionanti e utilizzabili nel mondo reale. Dagli strumenti e materiali indispensabili per realizzare un piccolo laboratorio, ai progetti basati su Arduino nell’ottica del Maker. Entrare a far parte della Maker Community significa prima di tutto mettersi in gioco, condividere i propri successi e i propri errori senza smettere mai di imparare. Con contributi di Cristina Ciocci (Ingegno Maker Space, Belgio), Walter Martinielli (Maka-It Modena, Italia), Marco Giorgini (Expert System S.p.A, Italia) e Tariq Ahmad (Community Manager Element14, Chicago, USA) i progetti presentati esplorano l’uso di Arduino con i sensori, la creazione di suoni, i servo e i motori passo-passo, e molto altro. Anziché “ricette fai da te”, si è cercato di creare un punto di partenza attraverso esempi adattabili che coinvolgono strumenti e mezzi come la stampa 3D, il disegno di circuiti elettronici, il CAD 3D e la programmazione. L’obiettivo principale è aiutare il lettore a diventare parte attiva della Maker Community, un fenomeno che va ben oltre la realizzazione di semplici progetti elettronici.

This hands-on guide will teach you all you need to know to bring your electronic inventions to life! This fully updated guide shows, step-by-step, how to disassemble, tweak, and re-purpose everyday devices for use in your own electronics creations. Written in the clear, easy-to-follow style that Dr. Simon Monk is famous for, this expanded edition includes coverage of both Arduino AND Raspberry Pi. Hacking Electronics: Learning Electronics with Arduino and Raspberry Pi, Second Edition, demonstrates each technique through fun DIY projects. Packed with full-color illustrations, photos, and diagrams, the book gets you up and running on your own projects right away. You will discover how to hack sensors, accelerometers, remote controllers, ultrasonic rangefinders, motors, stereo equipment, FM transmitters, and more. • Contains start-to-finish hacks for both Arduino AND Raspberry Pi! • Features new coverage of ready-made modules available online • Offers tips on working with Simon’s hacking electronics kit

Principi di funzionamento, accoppiamento con il carico, scelta del gruppo motore-riduttore, leggi di moto, controllo Il testo tratta in maniera unitaria tutti gli aspetti relativi ai moderni azionamenti elettrici. Oltre ai principi di funzionamento dei più diffusi attuatori (motori a corrente continua, brushless, asincroni, passo-passo, motori direct-drive, motori lineari, motori piezoelettrici) vengono illustrate le loro curve caratteristiche, i loro campi operativi, le loro possibilità di regolazione e di controllo, le problematiche di connessione con i carichi meccanici nonché la scelta delle leggi di moto. Particolare enfasi viene data ai criteri di scelta del gruppo motore-riduttore. Eventuali aggiornamenti o errata corrige verranno pubblicati all’indirizzo http://robotics.unibs.it.

The concept of conserving heritage for future generations is not a new idea. However, with recent digital advances, this task can be done much more efficiently and cultural properties can be better preserved for future populations. Digital Innovations in Architectural Heritage Publication: Emerging Research and Opportunities highlights the most innovative trends in electronic preservation techniques. Featuring extensive coverage on relevant topics such as cultural complexities, participative heritage, architectural backgrounds, and virtual reconstruction, this is an ideal publication for all academicians, graduate students, engineers, and researchers interested in expanding their knowledge on current heritage conservation systems and practices.

Practical Electronic Recipes with Arduino and Raspberry Pi

Sun Tracker, Automatic Solar- Tracking, Sun- Tracking Systems, Solar Trackers and Automatic Sun Tracker Systems

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Fritzing for Inventors: Take Your Electronics Project from Prototype to Product

Hacking Electronics: Learning Electronics with Arduino and Raspberry Pi, Second Edition

Conflict and Collaboration

Development Projects Observed

Originally published in 1967, the modest and plainly descriptive title of Development Projects Observed is deceptive. Today, it is recognized as the ultimate volume of Hirschman’s groundbreaking trilogy on development, and as the bridge to the broader social science themes of his subsequent writings. Though among his lesser-known works, this unassuming tome is one of his most influential. It is in this book that Hirschman first shared his now famous “Principle of the Hiding Hand.” In an April 2013 New Yorker issue, Malcolm Gladwell wrote an appreciation of the principle, described by Cass Sunstein in the book’s new foreword as “a bit of a trick up history’s sleeve.” It can be summed up as a phenomenon in which people’s inability to foresee obstacles leads to actions that succeed because people have far more problem-solving ability that they anticipate or appreciate. And it is in Development Projects Observed that Hirschman laid the foundation for the core of his most important work, Exit, Voice, and Loyalty, and later led to the concept of an “exit strategy.”

TEACHING UP WITH ANDROID FOR SOME MISCHIEVOUS FUN! Filled with practical, do-it-yourself gadgets, Arduino + Android Projects for the Evil Genius shows you how to create Arduino devices and control them with Android smartphones and tablets. Easy-to-find equipment and components are used for all the projects in the book. This wickedly inventive guide covers the Android Open Application Development Kit (ADK) and USB interface and explains how to use them with the basic Arduino platform. Methods of connecting with Android and Arduino that don’t require the ADK—including sound, Bluetooth, and WiFi/Ethernet are also discussed. An Arduino ADK programming tutorial helps you get started right away. Arduino + Android Projects for the Evil Genius: Contains step-by-step instructions and helpful illustrations Provides tips for customizing the projects Covers the underlying principles behind the projects Removes the frustration factor—all required parts are listed Provides all source code on the book’s website Build these and other device designs: Bluetooth robot Android Geiger counter Android-controlled light show TV remote automation controller Remote power and lighting control Smart thermostat RFID door lock Signaling flags Delay timer

Indice Rileggere il territorio Angela Barbanente, Biagio Salvemini, Rileggere e governare il territorio (p. 9-13), Biagio Salvemini, Come pensano gli spazi. Il passato (e il presente) del territorio di un parco rurale: l’Alta Murgia pugliese (p. 15-51), Michel Paradisi, Itinerari agricoli, scenari urbani: esempi di emancipazione e di deterritorializzazione (p. 53-74), Costis Hadjimichalis, Ray Hudson, Reti, sviluppo regionale e controllo democratico (p. 75-97), Patsy Healey, Complessità reticolare e potere immaginativo della pianificazione strategica dello spazio (p. 99-120), Angela Barbanente, Territori dell’innovazione. Pratiche e attori della programmazione integrata in Puglia (p. 121-149), Laura Grassini, Tra «buone pratiche» internazionali e azioni locali: conservazione e cambiamento in un progetto di slum upgrading in India (p. 151-175) Cristina Bianchetti, Due storie sul fare (p. 177-192), Saggi Salvatore Lupo, Gli alleati e la mafia: un patto scellerato? (p. 193-206), Felice Roberto Pizzutti, Invecchiamento e sistemi pensionistici: problemi reali e soluzioni ingannevoli (p. 207-225), Tito Bianchi, Riforma agraria ed economia dello sviluppo: lezioni internazionali dall’esperienza italiana (p. 227-262), Abu Hussein, La Casbah: resti di un passato da tutelare? (p. 263-278), Le frontiere del sociale Luca Succummaro, Spazio politico e identità: riflessioni sul dibattito in corso (p. 279-294), Cronache meridiane Antonio Di Gennaro, L’emergenza rifiuti in Campania: crisi della pianificazione, crisi della politica (p. 295-298).

This book will offer ideas on how robots can be used as teachers’ assistants to scaffold learning outcomes, where the robot is a learning agent in self-directed learning who can contribute to the development of key competences for today’s world through targeted learning - such as engineering thinking, math, physics, computational thinking, etc. starting from pre-school and continuing to a higher education level. Robotization is speeding up at the moment in a variety of dimensions, both through the automation of work, by performing intellectual duties, and by providing support for people in everyday situations. There is increasing political attention, especially in Europe, on educational systems not being able to keep up with such emerging technologies, and efforts to rectify this. This edited volume responds to this attention, and seeks to explore which pedagogical and educational concepts should be included in the learning process so that the use of robots is meaningful from the point of view of knowledge construction, and so that it is safe from the technological and cybersecurity perspective.

Using Robots to Scaffold Learning Outcomes

Azionamenti Elettrici

High precision solar position algorithms, programs, software and source-code for computing the solar vector, solar coordinates & sun angles in Microprocessor, PLC, Arduino, PIC and PC-based sun tracking devices or dynamic sun following hardware

A Practical Guide to the New Industrial Revolution

Advanced Violin Technique

Discover France

Program Arduino with ease! Using clear, easy-to-follow examples, Programming Arduino: Getting Started with Sketches reveals the software side of Arduino and explains how to write well-crafted sketches using the modified C language of Arduino. No prior programming experience is required! The downloadable sample programs featured in the book can be used as-is or modified to suit your purposes. Understand Arduino hardware fundamentals Install the software, power it up, and upload your first sketch Learn C language basics Write functions in Arduino sketches Structure data using arrays and strings Use Arduino’s digital and analog inputs and outputs in your programs Work with the Standard Arduino Library Write sketches that can store data Program LCD displays Use an Ethernet shield to enable Arduino to function as a web server Write your own Arduino libraries In December 2011, Arduino 1.0 was released. The changes a few things that have caused two of the sketches in this book to break. The change that has caused trouble is that the classes ‘Server’ and ‘Client’ have been renamed to ‘EthernetServer’ and ‘EthernetClient’ respectively. To fix this: Edit sketches 10-01 and 10-02 to replace all occurrences of the word ‘Server’ with ‘EthernetServer’ and all occurrences of ‘Client’ with ‘EthernetClient’. Alternatively, you can download the modified sketches for 10-01 and 10-02 from here: http://www.arduinobook.com/arduino-1-0-Make-Great-Stuff! TAB, an imprint of McGraw-Hill Professional, is a leading publisher of DIY technology books for makers, hackers, and electronics hobbyists.

Learn electricity and electronics fundamentals and applications—all without taking a formal course This fully updated guide offers practical, easy-to-follow instruction on electricity and electronics. Written by a pair of experienced instructors, Teach Yourself Electricity and Electronics, Sixth Edition, features plain language explanations and step-by-step lessons that make it easy to understand the material quickly. Throughout, detailed illustrations, practical examples, and self-tests reinforce key concepts. Inside, you’ll find all-new coverage of switching power supplies, class-D amplifiers, lithium-polymer batteries, microcontrollers—even the Arduino electronics platform. This up-to-date sixth edition covers: • Direct Current (DC) Circuits • Resistors • Cells and Batteries • Magnetism • Alternating Current (AC) Circuits • Inductors and Capacitors • Phase • Inductive and Capacitive Reactance • Impedance and Admittance • AC Power and Resonance • Transformers and Impedance Matching • Semiconductors, Diodes, and Transistors • Integrated Circuits (ICs) and Electron Tubes • Amplifiers and Oscillators • Wireless Transmitters and Receivers • Digital Circuits • Microcontrollers, including the Arduino • Transducers, Sensors, Location, and Navigation • Acoustics and Audio • Lasers • Advanced Communication Systems • Antennas For RF Communications

Don’t just printed circuit boards with Eagle Learn how to make double-sided professional-quality PCBs from the ground up using Eagle—the powerful, flexible design software. In this step-by-step guide, electronics guru Simon Monk leads you through the process of designing a schematic, transforming it into a PCB layout, and submitting standard Gerber files to a manufacturing service to create your finished board. Filled with detailed illustrations, photos, and screenshots, Make Your Own PCBs with Eagle features downloadable example projects so you can get started right away. Install Eagle Lite Edition and discover the views and screens that make up an Eagle project Create the schematic and board files for a simple LED project Find the right components and libraries for your projects Work with the Schematic Editor Lay out PCBs with through-hole components and with surface mount technology Build a sound level meter with a small amplifier and ten LEDs Generate Gerber design files to submit for fabrication Order through-hole PCBs and SMD boards Design a plug-in Arduino shield Build a Raspberry Pi expansion board Automate repetitive tasks using scripts and User Language Programs Create your own libraries and parts and modify existing components The focus on smart education has become a new trend in the global educational field. Some countries have already developed smart education systems and there is increasing pressure coming from business and tech communities to continue this development. Simultaneously, there are only fragmented studies on the didactic aspects of technology usage. Thus, pedagogy as a science must engage in a new research direction—smart pedagogy. This book seeks to engage in a new research direction, that of smart pedagogy. It launches discussions on how to use all sorts of smart education solutions in the context of existing learning theories and on how to apply innovative solutions in order to reduce the marginalization of groups in educational contexts. It also explores transformations of pedagogical science, the role of the educator, applicable teaching methods, learning outcomes, and research and assessment of acquired knowledge in an effort to make the smart education process meaningful to a wide audience of international educators, researchers, and administrators working within and tangential to TEL.

Quality Education for Quality Teaching

Guida completa: dall’idea alla realizzazione

Electronics Cookbook

NGOs and Corporations

Fraud Auditing and Forensic Accounting

Didactics of Smart Pedagogy

Take your creations to the next level with FPGAs and Verilog This fun guide shows how to get started with FPGA technology using the popular Mojo, Papilio One, and Elbert 2 boards. Written by electronics guru Simon Monk, Programming FPGAs: Getting Started with Verilog features clear explanations, easy-to-follow examples, and downloadable sample programs. You’ll get start-to-finish advice and programming instructions for numerous projects, including an LED decoder, a timer, a tone generator—even a memory-mapped video display! The book serves both as a hobbyists’ guide and as an introduction for professional developers. • Explore the basics of digital electronics and digital logic • Examine the features of the Mojo, Papilio One, and Elbert 2 boards Set up your computer and dive in to Verilog programming • Work with the ISE Design Suite and user constraints files • Understand and apply modular Verilog programming methods • Generate electrical pulses through your board’s GPIO ports • Control servomotors and create your own sounds • Attach a VGA TV or computer monitor and generate video • All source code and finished bit files available for download

The Montessori Method represents an explicit idealism and turn away from war and violence toward peace and reconstruction. It is built on coherent visions of how to improve human society by helping children realize their full potential as intelligent, creative, whole persons. In the Montessori Method, children are viewed as active authors of their own development, strongly influenced by natural, dynamic, self-righting forces within themselves, opening the way toward growth and learning. Teachers depend for their work with children on carefully prepared, aesthetically pleasing environments that serve as a pedagogical tool and provide strong messages about the curriculum and about respect for children. Partnering with parents is highly valued in the Montessori Method, and children are evaluated by means other than traditional tests and grades.

Program your own Raspberry Pi projects Create innovative programs and fun games on your tiny yet powerful Raspberry Pi. In this book, electronics guru Simon Monk explains the basics of Raspberry Pi application development, while providing hands-on examples and ready-to-use scripts. See how to set up hardware and software, write and debug applications, create user-friendly interfaces, and control external electronics. Do-it-yourself projects include a hangman game, an LED clock, and a software-controlled roving robot. Boot up and configure your Raspberry Pi Navigate files, folders, and menus Create Python programs using the IDLE editor Work with strings, lists, and functions Use and write your own libraries, modules, and classes Add Web features to your programs Develop interactive games with Pygame Interface with devices through the GPIO port Build a Raspberry Pi Robot and LED Clock Build professional-quality GUIs using Tkinter

FRAUD AUDITING AND FORENSIC ACCOUNTING with the responsibility of detecting and preventing fraud falling heavily on the accounting profession, every accountant needs to recognize fraud and learn the tools and strategies necessary to catch it in time. Providing valuable information to those responsible for dealing with prevention and discovery of financial deception, Fraud Auditing and Forensic Accounting, Fourth Edition helps accountants develop an investigative eye toward both internal and external fraud and provides tips for coping with fraud when it is found to have occurred. Completely updated and revised, the new edition presents: Brand-new chapters devoted to fraud response as well as to the physiological aspects of the fraudster A closer look at how forensic accountants get their job done More about Computer-Assisted Audit Tools (CAATs) and digital forensics Technological aspects of fraud auditing and forensic accounting Extended discussion on fraud schemes Case studies demonstrating industry-tested methods for dealing with fraud, all drawn from a wide variety of actual incidents Inside this book, you will find step-by-step keys to fraud investigation and the most current methods for dealing with financial fraud within your organization. Written by recognized experts in the field of white-collar crime, this Fourth Edition provides you, whether you are a beginning forensic accountant or an experienced investigator, with industry-tested methods for detecting, investigating, and preventing financial schemes.

Arduino Projects For Dummies

Programming Arduino Next Steps: Going Further with Sketches

Teach Yourself Electricity and Electronics, Sixth Edition

Programming the Raspberry Pi, Third Edition: Getting Started with Python

Real Analog Solutions for Digital Designers

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.

This book has been written to help digital engineers who need a few basic analog tools in their toolbox. For practicing digital engineers, students, educators and hands-on managers who are looking for the analog foundation they need to handle their daily engineering problems, this will serve as a valuable reference to the nuts-and-bolts of system analog design in a digital world. This book is a hands-on designer’s guide to the most important topics in analog electronics - such as Analog-to-Digital and Digital-to-Analog converters, operational amplifiers, filters, and integrating analog and digital systems. The presentation is tailored for engineers who are primarily experienced and/or educated in digital circuit design. This book will teach such readers how to “think analog” when it is the best solution to their problem. Special attention is also given to fundamental topics, such as noise and how to use analog test and measurement equipment, that are often ignored in other analog titles aimed at professional engineers. Extensive use of histories and real design examples offers digital designers the right analog “tool” for the job at hand Conversational, anecdotal “tone” is very easily accessible by students and practitioners alike.

The Association for Teacher Education in Europe (ATEE) is a non-profit European organisation, aimed at enhancing the quality of Teacher Education in Europe, and supporting the professional development of teachers and teacher educators at all levels. The ATEE Spring conference takes place every other year and is organized by the University of Latvia. The Spring conference in 2013 was the sixth such conference. The contents of this book contain the best articles written by participants at the 2013 conference, and the exchange of ideas between European teacher educators, in addition to experiences, research and ideas from outside Europe. European experience, knowledge and research support the general enhancement of the quality of teacher education throughout the world. As such, this book stimulates dialogue between teacher educators, researchers on teacher education, students, teachers, employers, politicians, supervisory bodies, NGOs and other groups involved in teacher education and research, and innovation in teacher education.

This book gathers review articles that analyze current agricultural issues and knowledge, then propose alternative solutions. It will therefore help all scientists, decision-makers, professors, farmers and politicians who wish to build a safe agriculture, energy and food system for future generations.

Big Bang Disruption

Software and Hardware Problems and Solutions

Attuatori per maker. Movimento, luce e suono con Arduino e Raspberry Pi

Meridiana 49. Rileggere il territorio

Smart Pedagogy for Technology Enhanced Learning

Smart Learning with Educational Robotics

This book details Solar-Tracking, Automatic Sun-Tracking-Systems and Solar-Trackers. Book and literature review is ideal for sun and moon tracking in solar applications for sun-rich countries such as the USA, Spain, Portugal, Mediterranean, Italy, Greece, Mexico, Portugal, China, India, Brazil, Chili, Argentina, South America, UAE, Saudi Arabia, Middle East, Iran, Iraq, etc. A solar tracker is a device that orients a payload toward the sun. Like a satellite tracker or moon tracker, it tracks the celestial object in the sky on its orbital path of apparent movement. A program includes principles of solar tracking, solar tracking systems, as well as microcontroller, microprocessor and/or PC based solar tracking control to orientate solar reflectors, solar lenses, photovoltaic panels or other optical configurations towards the sun. Motorized space frames and kinematic systems ensure motion dynamics and employ drive technology and gearing principles to steer optical configurations such as mangin, parabolic, conc, or cassegrain solar energy collectors to face the sun and follow the sun movement contour continuously. In harnessing pcc solar tracking system, renewable energy control automation systems require automatic solar tracking software and solar position algorithms to accomplish dynamic motion control with control automation architecture, circuit boards and hardware. On-axis sun tracking system such as the altitude-azimuth dual axis or multi-axis solar tracker systems use a sun tracking algorithm or ray tracing sensors or software to ensure the sun’s passage through the sky is traced with high precision in automated solar tracker applications, right through summer solstice, so perspective, the sunnet Tracing The Sun has a literal meaning. Within the context of sun track and trace, this book explains that the sun’s daily path across the sky is directed by relatively simple principles, and if grasped/understood, then it is relatively easy to trace the sun with sun following software. Sun position computer software for tracing the sun are available as open source code, sources that is listed in this book. Ironically there was even a system called sun chaser, said to have been a solar positioner system known for chasing the sun throughout solar tracking is quite simple, even if you are a novice, but mathematical solar equations are over complicated by academic experts and professors in text-books, Journal articles and internet websites. In terms of solar hobbies, scholars, students and hobbyists’ looking at solar tracking electronics or PC programs for solar tracking are usually overcome by the sheer volume of scientific material and internet resources, which leaves many developers in frustration when search for simple experimental solar tracking source-code for their on-axis sun-tracking system software. The software for solar tracking is tailored for engineers who are primarily experienced and/or educated in digital circuit design. This book will teach such readers how to “think analog” when it is the best solution to their problem. Special attention is also given to fundamental topics, such as noise and how to use analog test and measurement equipment, that are often ignored in other analog titles aimed at professional engineers. Extensive use of histories and real design examples offers digital designers the right analog “tool” for the job at hand Conversational, anecdotal “tone” is very easily accessible by students and practitioners alike.

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Attuatori per maker. Movimento, luce e suono con Arduino e Raspberry Pi

Meridiana 49. Rileggere il territorio

Smart Pedagogy for Technology Enhanced Learning

Smart Learning with Educational Robotics

This book details Solar-Tracking, Automatic Sun-Tracking-Systems and Solar-Trackers. Book and literature review is ideal for sun and moon tracking in solar applications for sun-rich countries such as the USA, Spain, Portugal, Mediterranean, Italy, Greece, Mexico, Portugal, China, India, Brazil, Chili, Argentina, South America, UAE, Saudi Arabia, Middle East, Iran, Iraq, etc. A solar tracker is a device that orients a payload toward the sun. Like a satellite tracker or moon tracker, it tracks the celestial object in the sky on its orbital path of apparent movement. A program includes principles of solar tracking, solar tracking systems, as well as microcontroller, microprocessor and/or PC based solar tracking control to orientate solar reflectors, solar lenses, photovoltaic panels or other optical configurations towards the sun. Motorized space frames and kinematic systems ensure motion dynamics and employ drive technology and gearing principles to steer optical configurations such as mangin, parabolic, conc, or cassegrain solar energy collectors to face the sun and follow the sun movement contour continuously. In harnessing pcc solar tracking system, renewable energy control automation systems require automatic solar tracking software and solar position algorithms to accomplish dynamic motion control with control automation architecture, circuit boards and hardware. On-axis sun tracking system such as the altitude-azimuth dual axis or multi-axis solar tracker systems use a sun tracking algorithm or ray tracing sensors or software to ensure the sun’s passage through the sky is traced with high precision in automated solar tracker applications, right through summer solstice, so perspective, the sunnet Tracing The Sun has a literal meaning. Within the context of sun track and trace, this book explains that the sun’s daily path across the sky is directed by relatively simple principles, and if grasped/understood, then it is relatively easy to trace the sun with sun following software. Sun position computer software for tracing the sun are available as open source code, sources that is listed in this book. Ironically there was even a system called sun chaser, said to have been a solar positioner system known for chasing the sun throughout solar tracking is quite simple, even if you are a novice, but mathematical solar equations are over complicated by academic experts and professors in text-books, Journal articles and internet websites. In terms of solar hobbies, scholars, students and hobbyists’ looking at solar tracking electronics or PC programs for solar tracking are usually overcome by the sheer volume of scientific material and internet resources, which leaves many developers in frustration when search for simple experimental solar tracking source-code for their on-axis sun-tracking system software. The software for solar tracking is tailored for engineers who are primarily experienced and/or educated in digital circuit design. This book will teach such readers how to “think analog” when it is the best solution to their problem. Special attention is also given to fundamental topics, such as noise and how to use analog test and measurement equipment, that are often ignored in other analog titles aimed at professional engineers. Extensive use of histories and real design examples offers digital designers the right analog “tool” for the job at hand Conversational, anecdotal “tone” is very easily accessible by students and practitioners alike.

The Association for Teacher Education in Europe (ATEE) is a non-profit European organisation, aimed at enhancing the quality of Teacher Education in Europe, and supporting the professional development of teachers and teacher educators at all levels. The ATEE Spring conference takes place every other year and is organized by the University of Latvia. The Spring conference in 2013 was the sixth such conference. The contents of this book contain the best articles written by participants at the 2013 conference, and the exchange of ideas between European teacher educators, in addition to experiences, research and ideas from outside Europe. European experience, knowledge and research support the general enhancement of the quality of teacher education throughout the world. As such, this book stimulates dialogue between teacher educators, researchers on teacher education, students, teachers, employers, politicians, supervisory bodies, NGOs and other groups involved in teacher education and research, and innovation in teacher education.

This book gathers review articles that analyze current agricultural issues and knowledge, then propose alternative solutions. It will therefore help all scientists, decision-makers, professors, farmers and politicians who wish to build a safe agriculture, energy and food system for future generations.

Big Bang Disruption

Software and Hardware Problems and Solutions

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Xeon, Atmel megaAVR, or Arduino AtMega microcontroller, with servo motor, stepper motor, direct current DC pulse width modulation PWM (current driver) or alternating current AC SPS or IPC variable frequency drives VFD motor drives (also termed adjustable-frequency drive, variable-speed drive, AC drive, micro drive or inverter drive) for electrical, mechatronic, pneumatic, or hydraulic solar tracking actuators. The above motion control and robot control systems include analogue or digital interfacing ports on the processors to allow for tracker angle orientati angle sensor or angle encoder, shaft encoder, precision encoder, optical encoder, magnetic encoder, direction encoder, rotational encoder, chip encoder, tilt sensor, inclination sensor, or pitch sensor. Note that the tracker's elevation or zenith axis angle may measured using an altitude angle-, declination angle-, inclination angle-, pitch angle-, or vertical angle-, zenith angle- sensor or inclinometer. Similarly the tracker's azimuth axis angle be measured with a azimuth angle-, horizontal angle-, or roll angle- sensor. Chip integrated accelerometer magnetometer gyros calculate displacement. Other options include the use of thermal imaging systems such as a Fluke thermal imager, or robotic or vision based solar tracker systems that employ face tracking, head tracking, hand tracking, eye tracking and car tracking principles in solar tracking. With unattended decentralised rural, island, isolated, or autonomous off-grid power installations, remote control, monitoring, data acquisition, digital datalogging and online measurement and verification equipment becomes crucial. It assists the operator with supervisory control to monitor systems and provide valuable web-based feedback in terms of CO2 and clean development mechanism (CDM) reporting. A power quality analyser for diagnostics through internet, WiFi and cellular mobile links is most valuable in frontline troubleshooting and predictive maintenance, where quick diagnostic analysis is required to detect and prevent power quality issues. Solar tracker applications cover a wide spectrum of solar energy and concentrated solar devices, including solar power generation, solar desalination, solar water purification, solar steam generation, process heat, solar thermal heat storage, solar food dryers, solar water pumping, hydrogen production from methane or producing hydrogen and oxygen from water (HHO) through electrolysis. Many patented or non-patented solar apparatus include tracking in solar apparatus for solar electric generator, solar desalinator, solar steam engine, solar ice maker, solar water purifier, solar cooling, solar refrigeration, USB solar charger, solar phone charging, portable solar charging tracker, solar coffee brewing, solar cooking or solar drying means. Your project may be held back by frustration in search for the sun tracker you require for your solar powered appliance, solar generator, solar tracker robot, solar freezer, solar cooker, solar drier, solar pump, solar freezer, or solar dryer project. Whether your solar electronic circuit diagram include a simplified solar controller design in a solar electricity project, solar power kit, solar hobby kit, solar steam generator, solar hot water system, solar ice maker, solar desalinator, hobbyist solar panels, hobby robot, or if you are developing professional or hobby electronics for a solar utility or solar farming, this publication may help accelerate the development of your solar tracking innovation. Lately, solar polygeneration, solar trigeneration (solar triple generation), and solar quad generation (adding delivery of steam, liquid/gaseous fuel, or capture food-grade COS_2S) systems have need for automatic solar tracking. These systems are known for significant efficiency increases in energy yield as a result of the integration and re-use of waste or residual heat and are suitable for compact packaged micro solar powerplants that could be manufactured on a play basis. Typical hybrid solar power systems include compact or packaged solar micro combined heat and power (CHP or mCHP) or solar micro combined, cooling, heating and power (CCHP, CHPC, mCCHP, or mCHPC) systems used in distributed power generation. These systems are often combined in concentrated solar CSP and CPV smart microgrid configurations for off-grid rural, island or isolated microgrid, minigrid and distributed power renewable energy systems. Solar tracking algorithms are also used in modelling of trigeneneration systems using Matlab and control of renewable energy systems through intelligent parsing, multi-objective, adaptive learning control and control optimization strategies. Solar tracking algorithms also find application in developing solar models for country or location specific solar studies, for example in terms of measuring or analysis of the fluctuations of the solar radiation (i.e. direct and diffuse radiation) in a particular area. Solar DNI, solar irradiance and atmospheric information and models can thus be integrated into a solar map, solar atlas or geographical information systems (GIS) and systems and provide valuable web-based feedback in terms of CO2 and clean development mechanism (CDM) reporting. An astronomical algorithm to calculate the position of the sun. It uses astronomical software algorithms and equations for solar tracking in the calculation of sun's position in the sky for each location on the earth at any time of day. Like an optical solar telescope, the solar position algorithm pin-points the solar reflector at the sun and locks onto the sun's position to track the sun across the sky as the sun progresses throughout the day. Optical sensors such as photodiodes, light-dependant-resistor feedback devices. Lately we also included a section in the book (with links to microprocessor code) on how the PixArt Wii infrared camera in the Wii remote or Wiimote may be used in infrared solar tracking applications. In order to harvest free energy from the sun, some automatic solar positioning systems use an optical means to direct the solar tracking device. These solar tracking strategies use optical tracking techniques, such as a sun sensor means, to direct sun rays onto a silicon or CMOS substrate to determine the X and Y coordinates of the sun's p sunlight enters the sun sensor through a small pin-hole in a mask plate where light is exposed to a silicon substrate. In a web-camera or camera image processing sun tracking and sun following means, object tracking software performs multi object tracking or moving object tracking methods. In an solar object tracking technique, image processing software performs mathematical processing to box the outline of the apparent solar disc or sun blob within the captured image frame, while sun-localization is performed with an edge detection algorithm to determine system help maximize the yields of solar power plants through solar tracking control to harness sun's energy. In such renewable energy systems, the solar panel positioning system uses a sun tracking techniques and a solar angle calculator in positioning PV panels in photovoltaic systems and concentrated photovoltaic CPV systems. Automatic on-axis solar tracking in a PV solar tracking system can be dual-axis sun tracking or single-axis sun solar tracking. It is known that a motorized positioning system in a photovoltaic panel tracker increase energy yield and axis solar tracking configuration. Other applications such as robotic solar tracker or robotic solar tracking system uses robotics with artificial intelligence in the control optimization of energy yield in solar harvesting through a robotic tracking system. Automatic positioning systems in solar tracking designs are also used in other free energy generators, such as concentrated solar thermal power CSP and dish Stirling systems. The sun tracking device in a solar concentrator or solar collector Such a performs on-axis solar tracking, a dual axis through an optical solar collector, which can be a parabolic mirror, parabolic reflector, Fresnel lens or mirror array/matrix. A parabolic dish or reflector is dynamically steered using a transmission system or solar tracking slew drive mean. In steering the dish to face the sun, the power dish actuator and actuation means in a parabolic dish system optically focusses the sun's energy on the focal point of a parabolic dish or solar concentrating means. A Stirling engine, solar heat pipe, thermosyphn, solar phase change material PCM receiver, or a fibre optic sunlight concentrator. The dish Stirling engine configuration is referred to as a dish Stirling system or Stirling power generation system. Hybrid solar power systems (used in combination with biogas, biofuel, petrol, ethanol, diesel, natural gas or PNG) use a combination of power sources to harness and store solar energy in a storage medium. Any multitude of energy sources can be combined through the use of controllers and the energy stored in batteries, phase change material, thermal heat storage, and in cogeneration form converted to the required power using it micro turbine, Stirling) with an inverter and charge controller.

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Discover all the amazing things you can do with Arduino Arduino is a programmable circuit board that is being used by everyone from scientists, programmers, and hardware hackers to artists, designers, hobbyists, and engineers in order to add interactivity to objects and projects and experiment with programming and electronics. This easy-to-understand book is an ideal place to start if you are interested in learning more about Arduino's vast capabilities. Featuring an array of cool projects, this Arduino beginner guide walks you through every step of each of the 100+ projects, from simple to advanced. Includes a variety of fun projects that show you how to do everything from automating your garden's watering system to constructing a keypad entry system, installing a tweeting cat flap, building a robot car, and much more Provides an easy, hands-on approach to learning more about electronics, programming, and interaction design for Makers of all ages Arduino Projects For Dummies plain old projects into incredible innovations. Get Connected! To find out more about Brock Craft and his recent Arduino creations, visit www.facebook.com/ArduinoProjectsForDummies

Programming Arduino Getting Started with Sketches

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A Baker's Dozen

A Guide to Social Return on Investment

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The book includes studies presented at the ATEE Spring Conference 2017 on emerging trends in the use of technology in educational processes, the use of robotics to facilitate the construction of knowledge, how to facilitate learning motivation, transformative learning, and innovative educational solutions. Chapters here are devoted to studies on the didactic aspects of technology usage, how to facilitate learning, and the social aspects affecting acquisition of education, among others. This volume serves as a basis for further discussions on the development of educational science, on topical research fields and practical challenges. It will be useful to scientists in the educational field who wish to get acquainted with the results of studies conducted in countries around the world on emerging educational issues. Moreover, teachers who need to implement into practice the newest scientific findings and opinions and future teachers who need to acquire new knowledge will also find this book useful.

"In this practical guide, electronics guru Simon Monk takes you under the hood of Arduino and reveals professional programming secrets. Featuring coverage of the Arduino Uno, Leonardo, and Due boards, Programming Arduino Next Steps: Going Further with Sketches shows you how to use interrupts, manage memory, program for the Internet, maximize serial communications, perform digital signal processing, and much more. All of the 75+ example sketches featured in the book are available for download"--

Innovations, Technologies and Research in Education

Getting Started with Arduino

Programming the Raspberry Pi: Getting Started with Python

Programming FPGAs: Getting Started with Verilog

The Maker's Manual

The Teacher of the 21st Century