

Esp32 Built In Oled Heltec Wifi Kit 32 Robot Zero One

A cellular network or mobile network is a wireless network distributed over land areas called cells, each served by at least one fixed-location transceiver, known as a cell site or base station. In a cellular network, each cell uses a different set of frequencies from neighboring cells, to avoid interference and provide guaranteed bandwidth within each cell. When joined together these cells provide radio coverage over a wide geographic area. This enables a large number of portable transceivers (e.g., mobile phones, pagers, etc.) to communicate with each other and with fixed transceivers and telephones anywhere in the network, via base stations, even if some of the transceivers are moving through more than one cell during transmission. Cellular networks offer a number of desirable features: More capacity than a single large transmitter, since the same frequency can be used for multiple links as long as they are in different cells Mobile devices use less power than with a single transmitter or satellite since the cell towers are closer Larger coverage area than a single terrestrial transmitter, since additional cell towers can be added indefinitely and are not limited by the horizon Major telecommunications providers have deployed voice and data cellular networks over most of the inhabited land area of the Earth. This allows mobile phones and mobile computing devices to be connected to the public switched telephone network and public Internet. Private cellular networks can be used for research or for large organizations and fleets, such as dispatch for local public safety agencies or a taxicab company.

This book gives insides of electrical and physical parameter measurements using arduino such as AC current, Frequency,

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pH, Liquid Level, flow, Air pressure and many more. The book layout is kept very simple like experiment notes 1. Discuss the measurement parameter 2. Sensor description 3. Circuit and its calculation 4. Circuit design 5. Programming 6. Results.

This revised edition of the Artech House bestseller, *RFID Design Principles*, serves as an up-to-date and comprehensive introduction to the subject. The second edition features numerous updates and brand new and expanded material on emerging topics such as the medical applications of RFID and new ethical challenges in the field. This practical book offers you a detailed understanding of RFID design essentials, key applications, and important management issues. The book explores the role of RFID technology in supply chain management, intelligent building design, transportation systems, military applications, and numerous other applications. It explains the design of RFID circuits, antennas, interfaces, data encoding schemes, and complete systems. Starting with the basics of RF and microwave propagation, you learn about major system components including tags and readers. This hands-on reference distills the latest RFID standards, and examines RFID at work in supply chain management, intelligent buildings, intelligent transportation systems, and tracking animals. RFID is controversial among privacy and consumer advocates, and this book looks at every angle concerning security, ethics, and protecting consumer data. From design details to applications to socio-cultural implications, this authoritative volume offers the knowledge you need to create an optimal RFID system and maximize its performance."

Getting Started with Soldering not only teaches new makers and experimenters the core principles of soldering, it also functions as an excellent reference and resource for

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beginners and more advanced makers alike. The book guides readers through the fundamentals of soldering, explains the tools and materials, demonstrates proper techniques, and shows how to fix mistakes or broken connections. It even includes guidance on more advanced techniques such as surface-mount soldering for electronics. From choosing the right soldering iron to making perfect connections, readers will acquire the knowledge and skills needed to form a strong foundation for a lifetime of making. Soldering is a core concept in making, electronics prototyping, and home repairs. The many different types of soldering -- requiring different materials and tools -- are explained with easy-to-follow instructions. Full-color photographs and illustrations throughout create a visually engaging format for learning. Pricing and technical considerations help readers select the best tools for their budgets and needs. Troubleshooting guidelines show how to repair solder connections that have failed from improper technique or from age.

A brief biography of the seventh president of the United States.

An inspirational story of a man who overcame obstacles and challenges to achieve his dreams. In an accident in 1980, Limbie, a healthy young man, was reduced to a quadriplegic. Read through his fears, sorrow, hope and courage in this heart-open honest book.

Energy-Efficient Wireless Sensor Networks, Energy-Efficient Wireless Sensor Networks is ideal to deal with the energy aspects of WSNs. It covers all the aspects of sensor networks with respect to energy conservation and optimization. It outlines the mechanisms, techniques, and algorithms of the physical layer, the media access control (MAC) layer, and the network layer in context with energy efficiency. It delves into energy-efficient security mechanisms and gives special attention to MAC protocols while presenting the current state

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of the art. This book discusses advances in energy-efficient algorithms using soft computing techniques and comparative analysis of these with traditional techniques. It also discusses the hierarchical network that improves the WSN lifetime and explores operational-level power management and energy harvesting. In addition to presenting other operational processes such as data aggregation, localization, time synchronization, and coverage, this book also discusses open research issues and considers the application and future trends of WSNs. Written primarily for students who are striving to understand the concepts of WSNs, Energy-Efficient Wireless Sensor Networks provides direction for budding researchers to explore a new area of research in WSNs. Industry experts and technical managers will also benefit from learning new business ideas and models as well as technological know-how. Book jacket.

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

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This book reports on the latest advances in the modeling, analysis and efficient management of information in Internet of Things (IoT) applications in the context of 5G access technologies. It presents cutting-edge applications made possible by the implementation of femtocell networks and millimeter wave communications solutions, examining them from the perspective of the universally and constantly connected IoT. Moreover, it describes novel architectural approaches to the IoT and presents the new framework possibilities offered by 5G mobile networks, including middleware requirements, node-centrality and the location of extensive functionalities at the edge. By providing researchers and professionals with a timely snapshot of emerging mobile communication systems, and highlighting the main pitfalls and potential solutions, the book fills an important gap in the literature and will foster the further developments of 5G hosting IoT devices.

This book constitutes the refereed proceedings of the 4th International Conference on Interactive Collaborative Robotics, ICR 2019, held in Istanbul, Turkey, in August 2019. The 32 papers presented in this volume were carefully reviewed and selected from 46 submissions. They deal with challenges of human-robot interaction; robot control and behavior in social robotics and collaborative robotics; and applied robotic and cyber-physical systems.

Super book for becoming super hero in Internet of Things world. It takes you from zero to become master in ESP8266 programming using Arduino IDE. IoT is recent trend in market you can built anything with help of this book, covers from basics to advance level. Includes getting data to VB.net, drawing graphs, using google gadgets to show gauges, hardware design aspects and much more.

An overview of the principles & current technology of the main sensor types used for flammable gas detection, oxygen

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monitoring in combustion & car-exhaust control. Also includes toxic gas monitoring. A companion volume to Techniques & Mechanisms in Gas Sensing.

Topics of interest include all aspects of computer science, computer engineering and information technology, but are not limited to Artificial Intelligence Agent System Big Data and Data Mining Biomedical Informatics Cloud and Grid Computing Computer Engineering E Business E Government E Learning Embedded System Electrical and Electronic Engineering Green Computing Human Computer Interactive Image Processing and Computer Vision Information Security and Cryptography Information System Mechatronics Mobile Computing and Applications Natural Language Processing Network & Data Communication Open Source System Pattern Recognition Robotics Smart City Smart Factory Smart Product Social Networking and Application Soft Computing Software Engineering Software Entrepreneurship Telecommunication Internet of Things Wireless Communication

This book provides a platform to understand Internet of things with Raspberry Pi and the basic knowledge of the programming and interfacing of the devices and designed systems. It broadly covers introduction to Internet of Things and enabling technologies, interfacing with Raspberry Pi and Arduino and interfacing with Raspberry Pi GPIO. Internet of Things with Raspberry pi and Arduino is aimed at senior undergraduate, graduate students and professionals in electrical engineering, computer engineering including robotics.

Create and program Internet of Things projects using the Espressif ESP32. Key Features Getting to know the all new powerful ESP32 boards and build interesting Internet of Things projects Configure your ESP32 to the cloud technologies and explore the networkable modules that will

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be utilised in your IoT projects A step-by-step guide that teaches you the basic to advanced IoT concepts with ESP32

Book Description ESP32 is a low-cost MCU with integrated Wi-Fi and BLE. Various modules and development boards-based on ESP32 are available for building IoT applications easily. Wi-Fi and BLE are a common network stack in the Internet of Things application. These network modules can leverage your business and projects needs for cost-effective benefits. This book will serve as a fundamental guide for developing an ESP32 program. We will start with GPIO programming involving some sensor devices. Then we will study ESP32 development by building a number of IoT projects, such as weather stations, sensor loggers, smart homes, Wi-Fi cams and Wi-Fi wardriving. Lastly, we will enable ESP32 boards to execute interactions with mobile applications and cloud servers such as AWS. By the end of this book, you will be up and running with various IoT project-based ESP32 chip. What you will learn

- Understand how to build a sensor monitoring logger
- Create a weather station to sense temperature and humidity using ESP32
- Build your own W-iFi wardriving with ESP32. Use BLE to make interactions between ESP32 and Android
- Understand how to create connections to interact between ESP32 and mobile applications
- Learn how to interact between ESP32 boards and cloud servers
- Build an IoT Application-based ESP32 board

Who this book is for This book is for those who want to build a powerful and inexpensive IoT projects using the ESP32. Also for those who are new to IoT, or those who already have experience with other platforms such as Arduino, ESP8266, and Raspberry Pi.

Building Wireless Sensor Networks: Application to Routing and Data Diffusion discusses challenges involved in securing routing in wireless sensor networks with new hybrid topologies. An analysis of the security of real time data

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diffusion—a protocol for routing in wireless sensor networks—is provided, along with various possible attacks and possible countermeasures. Different applications are introduced, and new topologies are developed. Topics include audio video bridging (AVB) switched Ethernet, which uses the representation of a network of wireless sensors by a grayscale image to construct routing protocols, thereby minimizing energy consumption and data sharing in vehicular ad-hoc networks. Existing wireless networks aim to provide communication services between vehicles by enabling the vehicular networks to support wide range applications. New topologies are proposed first, based on the graphiton models, then the wireless sensor networks (WSN) based on the IEEE 802.15.4 standard (ZigBee sensors, and finally the Pancake graphs as an alternative to the Hypercube for interconnecting processors in parallel computer networks. Presents an analysis and protocol for routing in wireless sensor networks Presents ways to prevent attacks against this protocol Introduces different applications Develops new topologies Multimedia Security: Watermarking, Steganography, and Forensics outlines essential principles, technical information, and expert insights on multimedia security technology used to prove that content is authentic and has not been altered. Illustrating the need for improved content security as the Internet and digital multimedia applications rapidly evolve, this book presents a wealth of everyday protection application examples in fields including multimedia mining and classification, digital watermarking, steganography, and digital forensics. Giving readers an in-depth overview of different aspects of

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information security mechanisms and methods, this resource also serves as an instructional tool on how to use the fundamental theoretical framework required for the development of extensive advanced techniques. The presentation of several robust algorithms illustrates this framework, helping readers to quickly master and apply fundamental principles. Presented case studies cover: The execution (and feasibility) of techniques used to discover hidden knowledge by applying multimedia duplicate mining methods to large multimedia content Different types of image steganographic schemes based on vector quantization Techniques used to detect changes in human motion behavior and to classify different types of small-group motion behavior Useful for students, researchers, and professionals, this book consists of a variety of technical tutorials that offer an abundance of graphs and examples to powerfully convey the principles of multimedia security and steganography. Imparting the extensive experience of the contributors, this approach simplifies problems, helping readers more easily understand even the most complicated theories. It also enables them to uncover novel concepts involved in the implementation of algorithms, which can lead to the discovery of new problems and new means of solving them.

The definitive guide to hacking the world of the Internet of Things (IoT) -- Internet connected devices

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such as medical devices, home assistants, smart home appliances and more. Drawing from the real-life exploits of five highly regarded IoT security researchers, Practical IoT Hacking teaches you how to test IoT systems, devices, and protocols to mitigate risk. The book begins by walking you through common threats and a threat modeling framework. You'll develop a security testing methodology, discover the art of passive reconnaissance, and assess security on all layers of an IoT system. Next, you'll perform VLAN hopping, crack MQTT authentication, abuse UPnP, develop an mDNS poisoner, and craft WS-Discovery attacks. You'll tackle both hardware hacking and radio hacking, with in-depth coverage of attacks against embedded IoT devices and RFID systems. You'll also learn how to:

- Write a DICOM service scanner as an NSE module
- Hack a microcontroller through the UART and SWD interfaces
- Reverse engineer firmware and analyze mobile companion apps
- Develop an NFC fuzzer using Proxmark3
- Hack a smart home by jamming wireless alarms, playing back IP camera feeds, and controlling a smart treadmill

The tools and devices you'll use are affordable and readily available, so you can easily practice what you learn. Whether you're a security researcher, IT team member, or hacking hobbyist, you'll find Practical IoT Hacking indispensable in your efforts to hack all the things

REQUIREMENTS:

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Basic knowledge of Linux command line, TCP/IP, and programming

Create your own LoRa wireless projects for non-industrial use and gain a strong basic understanding of the LoRa technology, LoRa WAN, and LPWAN.

You'll start by building your first LoRa wireless channel and then move on to various interesting projects such as setting up networks with a LoRa gateway, communicating with IoT servers using RESTful API and MQTT protocol, and real-time GPS tracking. With LoRa wireless and LoRaWAN, you can build a wide array of applications in the area of smart agriculture, smart cities, smart environment, smart healthcare, smart homes and buildings, smart industrial control, smart metering, smart supply chain and logistics. Beginning LoRa Radio Networks with Arduino provides a practical introduction and uses affordable and easy to obtain hardware to build projects with the Arduino development environment. What You'll Learn Understand the hardware need to build LoRaWAN Use the Arduino development environment to write code Connect to Arduino hardware and upload programs and communicate with them Setup networks with LoRa gateway Show real time track with tail, and path history Who This Book Is For Inventors, hackers, crafters, students, hobbyists, and scientists

This book constitutes the proceedings of the Third International Conference on Interactive Collaborative

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Robotics, ICR 2018, held in Leipzig, Germany, in September 2018, as a satellite event of the 20th International Conference on Speech and Computer, SPECOM 2018. The 30 papers presented in this volume were carefully reviewed and selected from 51 submissions. The papers presents challenges of human-robot interaction, robot control and behavior in social robotics and collaborative robotics, as well as applied robotic and cyberphysical systems.

The Microsoft MakeCode edition of Love to Code Vol 1 is made expressly for educators and younger learners who prefer to learn coding using a block-based language. Learn the same coding concepts contained in the Chibiscript version, but instead of typ

"This is teaching at its best!" --Hans Camenzind, inventor of the 555 timer (the world's most successful integrated circuit), and author of Much Ado About Almost Nothing: Man's Encounter with the Electron (Booklocker.com) "A fabulous book: well written, well paced, fun, and informative. I also love the sense of humor. It's very good at disarming the fear. And it's gorgeous. I'll be recommending this book highly." --Tom Igoe, author of Physical Computing and Making Things Talk

Want to learn the fundamentals of electronics in a fun, hands-on way? With Make: Electronics, you'll start working on real projects as soon as you crack open the book. Explore all of the key components and essential

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principles through a series of fascinating experiments. You'll build the circuits first, then learn the theory behind them! Build working devices, from simple to complex You'll start with the basics and then move on to more complicated projects. Go from switching circuits to integrated circuits, and from simple alarms to programmable microcontrollers. Step-by-step instructions and more than 500 full-color photographs and illustrations will help you use -- and understand -- electronics concepts and techniques. Discover by breaking things: experiment with components and learn from failure Set up a tricked-out project space: make a work area at home, equipped with the tools and parts you'll need Learn about key electronic components and their functions within a circuit Create an intrusion alarm, holiday lights, wearable electronic jewelry, audio processors, a reflex tester, and a combination lock Build an autonomous robot cart that can sense its environment and avoid obstacles Get clear, easy-to-understand explanations of what you're doing and why

Atmel's AVR microcontrollers are the chips that power Arduino, and are the go-to chip for many hobbyist and hardware hacking projects. In this book you'll set aside the layers of abstraction provided by the Arduino environment and learn how to program AVR microcontrollers directly. In doing so, you'll get closer to the chip and you'll be able to squeeze more

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power and features out of it. Each chapter of this book is centered around projects that incorporate that particular microcontroller topic. Each project includes schematics, code, and illustrations of a working project. Program a range of AVR chips
Extend and re-use other people's code and circuits
Interface with USB, I2C, and SPI peripheral devices
Learn to access the full range of power and speed of the microcontroller
Build projects including Cylon Eyes, a Square-Wave Organ, an AM Radio, a Passive Light-Sensor Alarm, Temperature Logger, and more
Understand what's happening behind the scenes even when using the Arduino IDE

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

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state of the art in the areas of the Electronics and Signal Processing.

The IEEE LCN conference is the premier conference on the leading edge of theoretical and practical aspects of computer networking LCN is a highly interactive conference that enables an effective interchange of results and ideas among researchers, users, and product developers For the past 43 years, major developments from high speed networks to the global Internet to specialized sensor networks have been reported at this conference

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

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Become a Python programmer—and have fun doing it! Start writing software that solves real problems, even if you have absolutely no programming experience! This friendly, easy, full-color book puts you in total control of your own learning, empowering you to build unique and useful programs. Microsoft has completely reinvented the beginning programmer’s tutorial, reflecting deep research into how today’s beginners learn, and why other books fall short. *Begin to Code with Python* is packed with innovations, from its “Snaps” prebuilt operations to its “Make Something Happen” projects. Whether you’re a total beginner or you’ve tried before, this guide will put the power, excitement, and fun of programming where it belongs: in your hands! Easy, friendly, and you’re in control! Learn how to... Get, install, and use powerful free tools to create modern Python programs Learn key concepts from 170 sample programs, and use them to jumpstart your own Discover exactly what happens when a program runs Approach program development with a professional perspective Learn the core elements of the Python language Build more complex software with classes, methods, and objects Organize programs so they’re easy to build and improve Capture and respond to user input Store and manipulate many types of real-world data Define custom data types to solve specific problems Create interactive games that are fun to play Build modern web and cloud-based applications Use pre-built libraries to quickly create powerful software Get code samples, including complete apps, at: <https://aka.ms/BegintoCodePython/downloads> About This Book For absolute beginners who’ve never written a line of code For anyone who’s been frustrated with other beginning programming books or courses For people who’ve started out with other languages and now want to learn Python Works with Windows PC, Apple Mac, Linux PC, or Raspberry Pi Includes mapping of MTA exam objectives

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that are covered in this book, as well as an appendix with further explanation of some of the topics on the exam "Discover the most powerful, low-cost creative development platform available"--Back cover.

This open access book was prepared as a Final Publication of the COST Action IC1303 "Algorithms, Architectures and Platforms for Enhanced Living Environments (AAPELE)". The concept of Enhanced Living Environments (ELE) refers to the area of Ambient Assisted Living (AAL) that is more related with Information and Communication Technologies (ICT). Effective ELE solutions require appropriate ICT algorithms, architectures, platforms, and systems, having in view the advance of science and technology in this area and the development of new and innovative solutions that can provide improvements in the quality of life for people in their homes and can reduce the financial burden on the budgets of the healthcare providers. The aim of this book is to become a state-of-the-art reference, discussing progress made, as well as prompting future directions on theories, practices, standards, and strategies related to the ELE area. The book contains 12 chapters and can serve as a valuable reference for undergraduate students, post-graduate students, educators, faculty members, researchers, engineers, medical doctors, healthcare organizations, insurance companies, and research strategists working in this area.

En&T onference is devoted to matters related to the latest innovative trends in the field of computer science, engineering sciences, telecommunications and information technology

Learn how to build apps using Apple's native APIs for the Internet of Things, including the Apple Watch, HomeKit, and Apple Pay. You'll also see how to interface with popular third-party hardware such as the Raspberry Pi, Arduino, and the FitBit family of devices. Program the Internet of Things with

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Swift and iOS is an update to the previous version and includes all new Swift 4 code. This book is a detailed tutorial that provides a detailed "how" and "why" for each topic, explaining Apple-specific design patterns as they come up and pulling lessons from other popular apps. To help you getting up and running quickly, each chapter is framed within a working project, allowing you to use the sample code directly in your apps. The Internet of Things is not limited to Apple devices alone, so this book also explains how to interface with popular third-party hardware devices, such as the Fitbit and Raspberry Pi, and generic interfaces, like Restful API's and HTTPS. You'll also review new API's like Face ID and new design considerations, and look more closely at SSL and how to make IoT connected apps more resistant to hackers. The coverage of Apple Watch has been expanded as well. The Internet of Things is waiting — be a part of it! What You'll Learn Use Apple's native IoT Frameworks, such as HealthKit, HomeKit, and FaceID Interact with popular third-party hardware, such as the Raspberry Pi, Arduino, and FitBit Work with real projects to develop skills based in experience Make a smarter IoT with SiriKit and CoreML Who This Book Is For The primary audience for this book are readers who have a grasp of the basics of iOS development and are looking to improve their Internet of Things-specific skills. Intermediate to Advanced level. The secondary audience would be business decision makers (managers, business analysts, executives) who are looking to gain a rough understanding of what is involved in Internet of Things development for iOS.

This book provides students with a thorough theoretical understanding of electromagnetic field equations and it also treats a large number of applications. The text is a comprehensive two-semester textbook. The work treats most topics in two steps – a short, introductory chapter followed by

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a second chapter with in-depth extensive treatment; between 10 to 30 applications per topic; examples and exercises throughout the book; experiments, problems and summaries. The new edition includes: modifications to about 30-40% of the end of chapter problems; a new introduction to electromagnetics based on behavior of charges; a new section on units; MATLAB tools for solution of problems and demonstration of subjects; most chapters include a summary. The book is an undergraduate textbook at the Junior level, intended for required classes in electromagnetics. It is written in simple terms with all details of derivations included and all steps in solutions listed. It requires little beyond basic calculus and can be used for self-study. The wealth of examples and alternative explanations makes it very approachable by students. More than 400 examples and exercises, exercising every topic in the book Includes 600 end-of-chapter problems, many of them applications or simplified applications Discusses the finite element, finite difference and method of moments in a dedicated chapter Presents an introduction to the open-source electronics prototyping platform.

Building Wireless Sensor Networks with ESP32 LoRaPE Press

Open-Source Lab: How to Build Your Own Hardware and Reduce Scientific Research Costs details the development of the free and open-source hardware revolution. The combination of open-source 3D printing and microcontrollers running on free software enables scientists, engineers, and lab personnel in every discipline to develop powerful research tools at unprecedented low costs. After

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reading Open-Source Lab, you will be able to: Lower equipment costs by making your own hardware Build open-source hardware for scientific research Actively participate in a community in which scientific results are more easily replicated and cited Numerous examples of technologies and the open-source user and developer communities that support them Instructions on how to take advantage of digital design sharing Explanations of Arduinos and RepRaps for scientific use A detailed guide to open-source hardware licenses and basic principles of intellectual property

This full-color book will inspire beginner JavaScript learners to start solving problems and creating programs with JavaScript, even with absolutely no programming experience. It's not just friendly and easy: it's the first JavaScript beginner's guide that puts readers in control of their own learning and empowers them to build unique programs to solve problems they care about. *Begin to Code with JavaScript* is packed with innovations, including its "Snaps" library of pre-built operations that are easy to combine with their own unique programs, Cookie Cutter templates that give them a flying start, and "Make Something Happen" projects that help them build skills by creating their own programs.

This is a practical book how to implement a simple Wireless Sensor Networks (WSN) with ESP32 over LoRa network. The following is a list of highlight

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topics in this book. * Preparing Development Environment * Set up ESP32 LoRa * Sending and Receiving Data over ESP32 LoRa * Handling LoRa Receiver Interrupt * Broadcast Messages over LoRa Network * Building WSN Application Based ESP32 LoRa

This comprehensive guide for experienced programmers thoroughly explains every 6502 and 65C02 instruction and covers assembler conventions, programming the interrupt system, and interfacing methods for input/output devices

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