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Marine Diesel Basics 1 Maintenance, Lay-up, winter Protection, Tropical Storage, Spring Recommission [Voyage Press](#)
Seeing is Understanding. The first VISUAL guide to marine diesel systems on recreational boats. Step-by-step instructions in clear, simple drawings explain how to maintain, winterize and recommission all parts of the system - fuel deck fill - engine - batteries - transmission - stern gland - propeller. Book one of a new series. Canadian author is a sailor and marine mechanic cruising aboard his 36-foot steel-hulled Chevrier sloop. Illustrations: 300+ drawings Pages: 222 pages Published: 2017 Format: softcover Category: Inboards, Gas & Diesel Fuels, Lubricants, Coolants, and Filters
A Training Guide to the "hows" and "whys" of Modern Fuels, Lubricants, Coolants, and Filters Fuels, Lubricants, Coolants, and Filters easily helps a reader to understand these wonderful liquids and filters better. By starting with the basics, it builds your knowledge step-by-step in a very structured manner. Loosened Threads 2018 / poems by members of Poetry ID, the North Herts Stanza of The Poetry Society Fundamentals of Nuclear Reactor Physics [Elsevier](#)
Fundamentals of Nuclear Reactor Physics offers a one-semester treatment of the essentials of how the fission nuclear reactor works, the various approaches to the design of reactors, and their safe and efficient operation . It provides a clear, general overview of atomic physics from the standpoint of reactor functionality and design, including the

sequence of fission reactions and their energy release. It provides in-depth discussion of neutron reactions, including neutron kinetics and the neutron energy spectrum, as well as neutron spatial distribution. It includes ample worked-out examples and over 100 end-of-chapter problems. Engineering students will find this applications-oriented approach, with many worked-out examples, more accessible and more meaningful as they aspire to become future nuclear engineers. A clear, general overview of atomic physics from the standpoint of reactor functionality and design, including the sequence of fission reactions and their energy release In-depth discussion of neutron reactions, including neutron kinetics and the neutron energy spectrum, as well as neutron spatial distribution Ample worked-out examples and over 100 end-of-chapter problems Full Solutions Manual A History of World Societies, Combined Volume [Macmillan](#) A History of World Societies introduces students to the global past through social history and the stories and voices of the people who lived it. Now published by Bedford/St. Martin's, and informed by the latest scholarship, the book has been thoroughly revised with students in mind to meet the needs of the evolving course. Proven to work in the classroom, the book's regional and comparative approach helps students understand the connections of global history while providing a manageable organization. With more global connections and comparisons, more documents, special features and activities that teach historical analysis, and an entirely new look, the ninth edition is the most teachable and accessible edition yet. Test drive a chapter today. Find out how. Download samples of Chapter 12 and Chapter 16. Or, read the preface. Alternators and Starter Motors Nuclear Energy An Introduction to the Concepts, Systems, and Applications of Nuclear Processes [Elsevier](#) This expanded, revised, and updated fourth edition of Nuclear Energy maintains the tradition of providing clear and comprehensive coverage of all aspects of the subject, with emphasis on the explanation of trends and developments. As in earlier editions, the book is divided into three parts that achieve a natural flow of ideas: Basic Concepts, including the fundamentals of energy, particle interactions, fission, and fusion; Nuclear Systems, including accelerators, isotope separators, detectors, and nuclear reactors; and Nuclear Energy and Man, covering the many applications of radionuclides, radiation, and reactors, along with a discussion of wastes and weapons. A minimum of mathematical background is required, but there is ample opportunity to learn characteristic numbers through the illustrative calculations and the exercises. An updated Solution Manual is available to the instructor. A new feature to aid the student is a set of some 50 Computer Exercises, using a diskette of personal computer programs in BASIC and spreadsheet, supplied by the author at a nominal cost. The book is of principal value as an introduction to nuclear science and technology for early college students, but can be of benefit to science teachers and lecturers, nuclear utility trainees and engineers in other fields. The Wizard, the Witch & Two Girls from Jersey Two mismatched teenage girls must find their way back home to New Jersey after being zapped into the pages

of a fantasy novel. Halloween Party Planner Holiday Decorations Or Vacation Countdown Checklist for Music & Scary Movies Organizer With Budget Expenses Tracker and Preparations and Costume This Halloween Party Planner. Halloween Party Details Halloween Countdown Checklist Single Page Halloween Party Outline Halloween Activities Halloween Budget Haunted House Plan Halloween Decorating Plan Halloween TV Shows Scary Movies Random Processes for Engineers [Cambridge University Press](#) This engaging introduction to random processes provides students with the critical tools needed to design and evaluate engineering systems that must operate reliably in uncertain environments. A brief review of probability theory and real analysis of deterministic functions sets the stage for understanding random processes, whilst the underlying measure theoretic notions are explained in an intuitive, straightforward style. Students will learn to manage the complexity of randomness through the use of simple classes of random processes, statistical means and correlations, asymptotic analysis, sampling, and effective algorithms. Key topics covered include: • Calculus of random processes in linear systems • Kalman and Wiener filtering • Hidden Markov models for statistical inference • The estimation maximization (EM) algorithm • An introduction to martingales and concentration inequalities. Understanding of the key concepts is reinforced through over 100 worked examples and 300 thoroughly tested homework problems (half of which are solved in detail at the end of the book). Elements of Dynamic Optimization [Waveland Press](#) In this text, Dr. Chiang introduces students to the most important methods of dynamic optimization used in economics. The classical calculus of variations, optimal control theory, and dynamic programming in its discrete form are explained in the usual Chiang fashion, with patience and thoroughness. The economic examples, selected from both classical and recent literature, serve not only to illustrate applications of the mathematical methods, but also to provide a useful glimpse of the development of thinking in several areas of economics. Secrets of Surrender [Dell](#) First he'll learn her most intimate secrets. Then he'll arouse her deepest passions. He's the lover she's been waiting for: the man who can rescue her from her wicked past-for a price-in Madeline Hunter's tale of sin, seduction, and irresistible, impossible love. He catches her eye across the dining room-a handsome stranger who stands out among the lewd noblemen and bawdy painted women. But their worlds are about to collide in a way Roselyn Longworth could never have imagined. For before the night is out, she will be auctioned off to the highest bidder...and Kyle Bradwell will lead her from one kind of hell to another. Yet from the moment he wins her, Kyle treats Rose with a gentleness she hasn't known since a family scandal destroyed her reputation. And when she finally learns what is really driving Kyle, it's too late. For Rose has fallen for the man who knows her most intimate secrets. Now he has stunned her with a proposal of marriage-the first step in a seduction that will demand nothing less than her complete surrender.... Timby's Fundamental Nursing Skills and Concepts [Lippincott Williams & Wilkins](#) Help your

LPN/LVN students develop the understanding and clinical skills necessary for effective practice in today's challenging health care environments with this trusted authority. Timby's **Fundamental Nursing Skills and Concepts, Twelfth Edition** continues a tradition of excellence in preparing LPN/LVN students for success throughout their nursing education and into clinical practice. This approachable resource gives students a solid foundation in theoretical nursing concepts, step-by-step skills and procedures, and clinical applications while encouraging them to apply philosophical concepts focusing on the human experience. Filled with engaging learning tools that promote critical thinking, this new edition has been fully updated to reflect current medical and nursing practice and features visually enticing photos and illustrations that bring the information to life to reinforce learning. **Cost Accounting Solutions Manual Looseleaf for Does the Center Hold?: An Introduction to Western Philosophy** [McGraw-Hill Education](#) **Does the Center Hold?** is an entertaining, topically-organized introductory program with more than 500 original illustrations. The ideas and issues typically covered in introductory philosophy courses are presented here in a remarkably accessible and enjoyable manner. Donald Palmer demonstrates that serious philosophical inquiry may be perplexing, but is ultimately liberating, and students will come away from the book with a comprehensive, and often delighted, understanding of philosophy. The Connect course for this offering includes SmartBook, an adaptive reading and study experience which guides students to master, recall, and apply key concepts while providing automatically-graded assessments. McGraw-Hill Connect® is a subscription-based learning service accessible online through your personal computer or tablet. Choose this option if your instructor will require Connect to be used in the course. Your subscription to Connect includes the following:

- SmartBook® - an adaptive digital version of the course textbook that personalizes your reading experience based on how well you are learning the content.
- Access to your instructor's homework assignments, quizzes, syllabus, notes, reminders, and other important files for the course.
- Progress dashboards that quickly show how you are performing on your assignments and tips for improvement.
- The option to purchase (for a small fee) a print version of the book. This binder-ready, loose-leaf version includes free shipping.

Complete system requirements to use Connect can be found here:
<http://www.mheducation.com/highered/platforms/connect/training-support-students.html>

Reinforced Concrete Design [Pearson](#) For courses in reinforced concrete. A practitioner's guide to reinforced concrete design **Reinforced Concrete Design** integrates current building and material codes with realistic examples to give readers a practical understanding of this field and the work of its engineers. Using a step-by-step solution format, the text takes a fundamental, active-learning approach to analyzing the design, strength, and behavior of reinforced concrete members and simple reinforced concrete structural systems. Content throughout the 9th edition conforms to the latest version

of ACI-318 Code. It expands discussion of several common design elements and practice issues, and includes more end-of-chapter problems reflecting real-world design projects. **Information Technology Made Simple** Elsevier **Information Technology: Made Simple** covers the full range of information technology topics, including more traditional subjects such as programming languages, data processing, and systems analysis. The book discusses information revolution, including topics about microchips, information processing operations, analog and digital systems, information processing system, and systems analysis. The text also describes computers, computer hardware, microprocessors, and microcomputers. The peripheral devices connected to the central processing unit; the main types of system software; application software; and graphics and multimedia are also considered. The book tackles equipment, software, and procedures involved in computer communications; available telecommunications services; and data and transaction processing. The text also presents topics about computer-integrated manufacturing; the technology of information processing and its business applications; and the impact of this technology on society in general. Students taking computer and information technology courses will find the book useful. **Hiroshima The World's Bomb** OUP Oxford **The US decision to drop an atomic bomb on the Japanese city of Hiroshima on 6 August 1945 remains one of the most controversial events of the twentieth century. However, the controversy over the rights and wrongs of dropping the bomb has tended to obscure a number of fundamental and sobering truths about the development of this fearsome weapon. The principle of killing thousands of enemy civilians from the air was already well established by 1945 and had been practised on numerous occasions by both sides during the Second World War. Moreover, the bomb dropped on Hiroshima was conceived and built by an international community of scientists, not just by the Americans. Other nations (including Japan and Germany) were also developing atomic bombs in the first half of the 1940s, albeit haphazardly. Indeed, it is difficult to imagine any combatant nation foregoing the use of the bomb during the war had it been able to obtain one. The international team of scientists organized by the Americans just got there first. As this fascinating new history shows, the bomb dropped by a US pilot that hot August morning in 1945 was in many ways the world's offspring, in both a technological and a moral sense. And it was the world that would have to face its consequences, strategically, diplomatically, and culturally, in the years ahead.** **Engineering Mechanics Statics and Dynamics** Prentice Hall **Engineering Mechanics: Combined Statics & Dynamics, Twelfth Edition** is ideal for civil and mechanical engineering professionals. In his substantial revision of **Engineering Mechanics**, R.C. Hibbeler empowers students to succeed in the whole learning experience. Hibbeler achieves this by calling on his everyday classroom experience and his knowledge of how students learn inside and outside of lecture. In addition to over 50% new homework problems, the twelfth edition introduces the new elements of Conceptual Problems, Fundamental Problems

and MasteringEngineering, the most technologically advanced online tutorial and homework system. Japanese Verbs and Essentials of Grammar A Practical Guide to the Mastery of Japanese [McGraw-Hill Companies](#) In one compact volume, Japanese Verbs & Essentials of Grammar, Second Edition, offers an integrated beginner's guide to all major verbal and grammatical concepts of the Japanese language. This latest edition of the popular and accessible guide has been updated to include: Expanded vocabulary lists featuring common idiomatic phrases New examples of sentences and sentence structure An in-depth introduction to Japanese scripts Each of the 46 units includes clear explanations and examples to help you master the Japanese language. Roomaji, or transliteration, is featured throughout. Arduino A Quick-Start Beginner's Guide [Createspace Independent Publishing Platform](#) Arduino - A Quick-Start Beginner's Guide This book is designed as a guide for people new to the Arduino platform. It will help you understand the Arduino as a technology and platform, set it up on your computer, do your first experiments with hardware, and understand the role of the Arduino in the evolution of the Internet of Things. Here Is A Preview Of What You'll Learn... What Is Arduino? The Different Arduino Models & Features Arduino Basics Arduino Commands Projects For Your Pets Wearable Arduino Projects How To Get The Most Out Of Your Arduino Much, Much More! Take Action Today and Learn Arduino In No Time! Click the "Buy now with 1-Click" to the right and get this guide immediately. Raspberry Pi LED Blueprints [Packt Publishing Ltd](#) Design, build, and test LED-based projects using the Raspberry Pi About This Book Implement real LED-based projects for Raspberry Pi Learn to interface various LED modules such as LEDs, 7-segment, 4-digits 7 segment, and dot matrix to Raspberry Pi Get hands-on experience by exploring real-time LEDs with this project-based book Who This Book Is For This book is for those who want to learn how to build Raspberry Pi projects utilising LEDs, 7 segment, 4-digits 7 segment, and dot matrix modules. You also will learn to implement those modules in real applications, including interfacing with wireless modules and the Android mobile app. However, you don't need to have any previous experience with the Raspberry Pi or Android platforms. What You Will Learn Control LEDs, 7 segments, and 4-digits 7 segment from a Raspberry Pi Expand Raspberry Pi's GPIO Build a countdown timer Build a digital clock display Display numbers and characters on dot matrix displays Build a traffic light controller Build a remote home light control with a Bluetooth low energy module and Android Build mobile Internet-controlled lamps with a wireless module and Android In Detail Blinking LED is a popular application when getting started in embedded development. By customizing and utilising LED-based modules into the Raspberry Pi board, exciting projects can be obtained. A countdown timer, a digital clock, a traffic light controller, and a remote light controller are a list of LED-based inspired project samples for Raspberry Pi. An LED is a simple actuator device that displays lighting and can be controlled easily from a Raspberry Pi. This book will provide you with the ability to control LEDs from Raspberry Pi, starting from describing an idea

through designing and implementing several projects based on LEDs, such as, 7-segments, 4-digits 7 segment, and dot matrix displays. Beginning with step-by-step instructions on installation and configuration, this book can either be read from cover to cover or treated as an essential reference companion to your Raspberry Pi. Samples for the project application are provided such as a countdown timer, a digital clock, a traffic light controller, a remote light controller, and an LED-based Internet of Things, so you get more practice in the art of Raspberry Pi development. **Raspberry Pi LED Blueprints** is an essential reference guide full of practical solutions to help you build LED-based applications. Style and approach This book follows a step-by-step approach to LED-based development for Raspberry Pi, explained in a conversational and easy-to-follow style. Each topic is explained sequentially in the process of building an application, and detailed explanations of the basic and advanced features are included. **Complex Analysis and Applications, Second Edition** [CRC Press](#) **Complex Analysis and Applications, Second Edition** explains complex analysis for students of applied mathematics and engineering. Restructured and completely revised, this textbook first develops the theory of complex analysis, and then examines its geometrical interpretation and application to Dirichlet and Neumann boundary value problems. A discussion of complex analysis now forms the first three chapters of the book, with a description of conformal mapping and its application to boundary value problems for the two-dimensional Laplace equation forming the final two chapters. This new structure enables students to study theory and applications separately, as needed. In order to maintain brevity and clarity, the text limits the application of complex analysis to two-dimensional boundary value problems related to temperature distribution, fluid flow, and electrostatics. In each case, in order to show the relevance of complex analysis, each application is preceded by mathematical background that demonstrates how a real valued potential function and its related complex potential can be derived from the mathematics that describes the physical situation. **Arduino Development Cookbook** [Packt Publishing Ltd](#) If you want to build programming and electronics projects that interact with the environment, this book will offer you dozens of recipes to guide you through all the major applications of the Arduino platform. It is intended for programming or electronics enthusiasts who want to combine the best of both worlds to build interactive projects. **Arduino Electronics Blueprints** [Packt Publishing Ltd](#) **Arduino** is an open source electronics prototyping platform for building a multitude of smart devices and gadgets. Developers can benefit from using Arduino in their projects because of the ease of coding, allowing you to build cool and amazing devices supported by numerous hardware resources such as shields in no time at all. Whether you're a seasoned developer or brand new to Arduino, this book will provide you with the knowledge and skill to build amazing smart electronic devices and gadgets. First, you will learn how to build a sound effects generator using recorded audio-wave files you've made or obtained from the Internet. Next, you will build DC motor controllers operated by a web page, a

slide switch, or a touch sensor. Finally, the book will explain how to build an electronic operating status display for an FM radio circuit using Arduino. **Arduino Sketches Tools and Techniques for Programming Wizardry** [John Wiley & Sons](#)

Master programming Arduino with this hands-on guide **Arduino Sketches** is a practical guide to programming the increasingly popular microcontroller that brings gadgets to life. Accessible to tech-lovers at any level, this book provides expert instruction on Arduino programming and hands-on practice to test your skills. You'll find coverage of the various Arduino boards, detailed explanations of each standard library, and guidance on creating libraries from scratch - plus practical examples that demonstrate the everyday use of the skills you're learning. Work on increasingly advanced programming projects, and gain more control as you learn about hardware-specific libraries and how to build your own. Take full advantage of the Arduino API, and learn the tips and tricks that will broaden your skillset. The Arduino development board comes with an embedded processor and sockets that allow you to quickly attach peripherals without tools or solders. It's easy to build, easy to program, and requires no specialized hardware. For the hobbyist, it's a dream come true - especially as the popularity of this open-source project inspires even the major tech companies to develop compatible products. **Arduino Sketches** is a practical, comprehensive guide to getting the most out of your Arduino setup. You'll learn to: Communicate through Ethernet, WiFi, USB, Firmata, and Xbee Find, import, and update user libraries, and learn to create your own Master the Arduino Due, Esplora, Yun, and Robot boards for enhanced communication, signal-sending, and peripherals Play audio files, send keystrokes to a computer, control LED and cursor movement, and more This book presents the Arduino fundamentals in a way that helps you apply future additions to the Arduino language, providing a great foundation in this rapidly-growing project. If you're looking to explore Arduino programming, **Arduino Sketches** is the toolbox you need to get started. **Arduino and Raspberry Pi Sensor Projects for the Evil Genius** [McGraw Hill Professional](#) **Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product.** **Fiendishly Clever Sensor Projects for Your Arduino and Raspberry Pi** Learn to quickly build your own electronic gadgets that monitor, measure, and react to the real world—with no prior experience required! This easy-to-follow guide covers the programming and electronics essentials needed to build fun and educational sensor-based projects with both Arduino and Raspberry Pi. **Arduino and Raspberry Pi Sensor Projects for the Evil Genius** features step-by-step DIY projects that use inexpensive, readily available parts. You will discover how to use touch, temperature, moisture, light, sound, and motion sensors—even sensors that detect the presence of a human! Start-to-finish Arduino and Raspberry Pi projects include: • “Simon Says” game • Rotary encoder that controls an RGB LED • Reed switch door buzzer alarm • Fire alarm • Sound detector • Light clapper • Glass break alarm • Infrared motion detector • Distance

sensor intruder alarm • Collision alarm • TFT color display screen • Door entry alarm with SD card logging • And many more

Students' Guide to Information Technology [Elsevier](#) **Students' Guide to Information Technology, Second Edition** provides up-to-date coverage of significant developments in information technology, including office automation, telecommunications, expert systems, computer-aided manufacture, and computer-based training. The book first offers information on computers and computer peripherals and applications. Discussions focus on how a microprocessor handles information, microprocessors and logic, neural networks, digital signal processors, processing speeds, computer memory, monitors, printers, and input and storage devices. The manuscript then surveys computer software and technical convergence. Topics cover analogue and digital information, audio and video systems, technological convergence in audio systems, compact disc for multimedia applications, interactive video, programming languages, operating software, operating system commands, application software, and software reliability. The publication tackles the role of information technology in manufacturing and in the office, communications, and information systems. Concerns include electronic data interchange, computer-aided design, data processing systems, office automation systems, and dataflow diagrams. The manuscript is a dependable source of data for computer science experts and researchers interested in information technology.

Programmable Logic Controllers [Newnes](#) **A programmable logic controllers (PLC) is a real-time system optimized for use in severe conditions such as high/low temperatures or an environment with excessive electrical noise. This control technology is designed to have multiple interfaces (I/Os) to connect and control multiple mechatronic devices such as sensors and actuators. Programmable Logic Controllers, Fifth Edition, continues to be a straight forward, easy-to-read book that presents the principles of PLCs while not tying itself to one vendor or another. Extensive examples and chapter ending problems utilize several popular PLCs currently on the market highlighting understanding of fundamentals that can be used no matter the specific technology. Ladder programming is highlighted throughout with detailed coverage of design characteristics, development of functional blocks, instruction lists, and structured text. Methods for fault diagnosis, testing and debugging are also discussed. This edition has been enhanced with new material on I/Os, logic, and protocols and networking. For the UK audience only: This book is fully aligned with BTEC Higher National requirements. *New material on combinational logic, sequential logic, I/Os, and protocols and networking *More worked examples throughout with more chapter-ending problems *As always, the book is vendor agnostic allowing for general concepts and fundamentals to be taught and applied to several controllers**

Digital Transformation An Executive Guide To Survive and Thrive In The New Economy [Balboa Press](#) **Digital Technologies are impacting society in the 21st century the same way the industrial technologies impacted society in the 20th century. They are dramatically changing consumer behavior and expectations which is**

resulting in traditional industries being disrupted, traditional businesses being displaced and new industries being created. Executives of traditional companies must transform their business models to survive in the digital economy. In this book author Lynda J Roth - describes how technology has been transforming society over the past 200 years and why the current digital technologies are so disruptive - explains the digital technologies that are fueling the digital economy with stories of successful business applications - describes the 7 key mistakes business executives are making in their digital transformation - details the 5 key steps to a successful transformation from a traditional 20th century business to a thriving 21st century digital business. Internet of Things with Python [Packt Publishing Ltd](#) Interact with the world and rapidly prototype IoT applications using Python About This Book Rapidly prototype even complex IoT applications with Python and put them to practical use Enhance your IoT skills with the most up-to-date applicability in the field of wearable tech, smart environments, and home automation Interact with hardware, sensors, and actuators and control your DIY IoT projects through Python Who This Book Is For The book is ideal for Python developers who want to explore the tools in the Python ecosystem in order to build their own IoT applications and work on IoT-related projects. It is also a very useful resource for developers with experience in other programming languages that want to easily prototype IoT applications with the Intel Galileo Gen 2 board. What You Will Learn Prototype and develop IoT solutions from scratch with Python as the programming language Develop IoT projects with Intel Galileo Gen 2 board along with Python Work with the different components included in the boards using Python and the MRAA library Interact with sensors, actuators, and shields Work with UART and local storage Interact with any electronic device that supports the I2C bus Allow mobile devices to interact with the board Work with real-time IoT and cloud services Understand Big Data and IoT analytics In Detail Internet of Things (IoT) is revolutionizing the way devices/things interact with each other. And when you have IoT with Python on your side, you'll be able to build interactive objects and design them. This book lets you stay at the forefront of cutting-edge research on IoT. We'll open up the possibilities using tools that enable you to interact with the world, such as Intel Galileo Gen 2, sensors, and other hardware. You will learn how to read, write, and convert digital values to generate analog output by programming Pulse Width Modulation (PWM) in Python. You will get familiar with the complex communication system included in the board, so you can interact with any shield, actuator, or sensor. Later on, you will not only see how to work with data received from the sensors, but also perform actions by sending them to a specific shield. You'll be able to connect your IoT device to the entire world, by integrating WiFi, Bluetooth, and Internet settings. With everything ready, you will see how to work in real time on your IoT device using the MQTT protocol in python. By the end of the book, you will be able to develop IoT prototypes with Python, libraries, and tools. Style and approach This book takes a

tutorial-like approach with mission critical chapters. The initial chapters are introductions that set the premise for useful examples covered in later chapters. **Raspberry Pi Sensors** [Packt Publishing Ltd](#) This book is perfect for hardware enthusiasts who want to develop amazing projects using Raspberry Pi. Some knowledge and experience working with Linux, C, and Python is a plus, but once you're set up to go, you'll be ready to push the creative capabilities of your Raspberry Pi even further. **Internet of Things with ESP8266** [Packt Publishing Ltd](#) Build amazing Internet of Things projects using the ESP8266 Wi-Fi chip **About This Book** Get to know the powerful and low cost ESP8266 and build interesting projects in the field of Internet of Things **Configure your ESP8266 to the cloud and explore the networkable modules that will be utilized in the IoT projects** This step-by-step guide teaches you the basics of IoT with ESP8266 and makes your life easier **Who This Book Is For** This book is for those who want to build powerful and inexpensive IoT projects using the ESP8266 WiFi chip, including those who are new to IoT, or those who already have experience with other platforms such as Arduino. **What You Will Learn** Control various devices from the cloud Interact with web services, such as Twitter or Facebook Make two ESP8266 boards communicate with each other via the cloud Send notifications to users of the ESP8266, via email, text message, or push notifications Build a physical device that indicates the current price of Bitcoin Build a simple home automation system that can be controlled from the cloud Create your own cloud platform to control ESP8266 devices **In Detail** The Internet of Things (IoT) is the network of objects such as physical things embedded with electronics, software, sensors, and connectivity, enabling data exchange. ESP8266 is a low cost WiFi microcontroller chip that has the ability to empower IoT and helps the exchange of information among various connected objects. ESP8266 consists of networkable microcontroller modules, and with this low cost chip, IoT is booming. This book will help deepen your knowledge of the ESP8266 WiFi chip platform and get you building exciting projects. Kick-starting with an introduction to the ESP8266 chip, we will demonstrate how to build a simple LED using the ESP8266. You will then learn how to read, send, and monitor data from the cloud. Next, you'll see how to control your devices remotely from anywhere in the world. Furthermore, you'll get to know how to use the ESP8266 to interact with web services such as Twitter and Facebook. In order to make several ESP8266s interact and exchange data without the need for human intervention, you will be introduced to the concept of machine-to-machine communication. The latter part of the book focuses more on projects, including a door lock controlled from the cloud, building a physical Bitcoin ticker, and doing wireless gardening. You'll learn how to build a cloud-based ESP8266 home automation system and a cloud-controlled ESP8266 robot. Finally, you'll discover how to build your own cloud platform to control ESP8266 devices. With this book, you will be able to create and program Internet of Things projects using the ESP8266 WiFi chip. **Style and approach** This is a step-by-step guide that provides great IOT projects with ESP8266.

All the key concepts are explained details with the help of examples and demonstrations of the projects. Mastering Embedded Linux Programming Packt Publishing Ltd Master the techniques needed to build great, efficient embedded devices on Linux About This Book Discover how to build and configure reliable embedded Linux devices This book has been updated to include Linux 4.9 and Yocto Project 2.2 (Morty) This comprehensive guide covers the remote update of devices in the field and power management Who This Book Is For If you are an engineer who wishes to understand and use Linux in embedded devices, this book is for you. It is also for Linux developers and system programmers who are familiar with embedded systems and want to learn and program the best in class devices. It is appropriate for students studying embedded techniques, for developers implementing embedded Linux devices, and engineers supporting existing Linux devices. What You Will Learn Evaluate the Board Support Packages offered by most manufacturers of a system on chip or embedded module Use Buildroot and the Yocto Project to create embedded Linux systems quickly and efficiently Update IoT devices in the field without compromising security Reduce the power budget of devices to make batteries last longer Interact with the hardware without having to write kernel device drivers Debug devices remotely using GDB, and see how to measure the performance of the systems using powerful tools such as `perk`, `ftrace`, and `valgrind` Find out how to configure Linux as a real-time operating system In Detail Embedded Linux runs many of the devices we use every day, from smart TVs to WiFi routers, test equipment to industrial controllers - all of them have Linux at their heart. Linux is a core technology in the implementation of the inter-connected world of the Internet of Things. The comprehensive guide shows you the technologies and techniques required to build Linux into embedded systems. You will begin by learning about the fundamental elements that underpin all embedded Linux projects: the toolchain, the bootloader, the kernel, and the root filesystem. You'll see how to create each of these elements from scratch, and how to automate the process using Buildroot and the Yocto Project. Moving on, you'll find out how to implement an effective storage strategy for flash memory chips, and how to install updates to the device remotely once it is deployed. You'll also get to know the key aspects of writing code for embedded Linux, such as how to access hardware from applications, the implications of writing multi-threaded code, and techniques to manage memory in an efficient way. The final chapters show you how to debug your code, both in applications and in the Linux kernel, and how to profile the system so that you can look out for performance bottlenecks. By the end of the book, you will have a complete overview of the steps required to create a successful embedded Linux system. Style and approach This book is an easy-to-follow and pragmatic guide with in-depth analysis of the implementation of embedded devices. It follows the life cycle of a project from inception through to completion, at each stage giving both the theory that underlies the topic and practical step-by-step walkthroughs of an example implementation. Arduino by

Example Packt Publishing Ltd Design and build fantastic projects and devices using the Arduino platform About This Book Explore the different sensors that can be used to improve the functionality of the Arduino projects Program networking modules in conjunction with Arduino to make smarter and more communicable devices A practical guide that shows you how to utilize Arduino to create practical, useful projects Who This Book Is For This book is an ideal choice for hobbyists or professionals who want to create quick and easy projects with Arduino. As a prerequisite, readers must have a working Arduino system and some programming background, ideally in C/C++. Basic knowledge of Arduino is helpful but not required to follow along with this book. What You Will Learn Understand and utilize the capabilities of the Arduino Integrate sensors to gather environmental data and display this information in meaningful ways Add modules such as Bluetooth and Wi-Fi that allow the Arduino to communicate and send data between devices Create simple servers to allow communication to occur Build automated projects including robots while learning complex algorithms to mimic biological locomotion Implement error handling to make programs easier to debug and look more professional Integrate powerful programming tools and software such as Python and Processing to broaden the scope of what the Arduino can achieve Practice and learn basic programming etiquette In Detail Arduino an opensource physical computing platform based on a simple microcontroller board, and a development environment for writing software for the board. The opensource Arduino software (IDE) makes it easy to write code and upload it to the board. It runs on Windows, Mac OS X, and Linux. The environment is written in Java and based on Processing and other opensource software. With the growing interest in home-made, weekend projects among students and hobbyists alike, Arduino offers an innovative and feasible platform to create projects that promote creativity and technological tinkering. Arduino by Example is a project-oriented guide to help you fully utilize the power of one of the world's most powerful open source platforms, Arduino. This book demonstrates three projects ranging from a home automation project involving your lighting system to a simple robotic project to a touch sensor project. You will first learn the basic concepts such as how to get started with the Arduino, and as you start building the project, you will develop the practical skills needed to successfully build Arduino powered projects that have real-life implications. The complexity of the book slowly increases as you complete a project and move on to the next. By the end of this book, you will be able to create basic projects and utilize the elements used in the examples to construct your own devices. Style and approach This book follows a project-oriented approach, with multiple images and plenty of code to help you build your projects easily. The book uses a tutorial-based methodology where the concepts are first explained and then implemented to help you develop the projects. Land Title Practice Manual (Queensland) Adventures in Arduino [John Wiley & Sons](#) Arduino programming for the absolute beginner, with project-based learning Adventures in Arduino is the

beginner's guide to Arduino programming, designed specifically for 11-to 15-year olds who want to learn about Arduino, but don't know where to begin. Starting with the most basic concepts, this book coaches you through nine great projects that gradually build your skills as you experiment with electronics. The easy-to-follow design and clear, plain-English instructions make this book the ideal guide for the absolute beginner, geared toward those with no computing experience. Each chapter includes a video illuminating the material, giving you plenty of support on your journey to electronics programming. Arduino is a cheap, readily available hardware development platform based around an open source, programmable circuit board. Combining these chips with sensors and servos allows you to gain experience with prototyping as you build interactive electronic crafts to bring together data and even eTextiles. Adventures in Arduino gets you started on the path of scientists, programmers, and engineers, showing you the fun way to learn electronic programming and interaction design. Discover how and where to begin Arduino programming Develop the skills and confidence to tackle other projects Make the most of Arduino with basic programming concepts Work with hardware and software to create interactive electronic devices There's nothing like watching your design come to life and interact with the real world, and Arduino gives you the capability to do that time and again. The right knowledge combined with the right tools can create an unstoppable force of innovation, and your curiosity is the spark that ignites the flame. Adventures in Arduino gets you started on the right foot, but the path is totally up to you. Dancing with Qubits How quantum computing works and how it can change the world [Packt Publishing Ltd](#) Explore the principles and practicalities of quantum computing Key Features Discover how quantum computing works and delve into the math behind it with this quantum computing textbook Learn how it may become the most important new computer technology of the century Explore the inner workings of quantum computing technology to quickly process complex cloud data and solve problems Book Description Quantum computing is making us change the way we think about computers. Quantum bits, a.k.a. qubits, can make it possible to solve problems that would otherwise be intractable with current computing technology. Dancing with Qubits is a quantum computing textbook that starts with an overview of why quantum computing is so different from classical computing and describes several industry use cases where it can have a major impact. From there it moves on to a fuller description of classical computing and the mathematical underpinnings necessary to understand such concepts as superposition, entanglement, and interference. Next up is circuits and algorithms, both basic and more sophisticated. It then nicely moves on to provide a survey of the physics and engineering ideas behind how quantum computing hardware is built. Finally, the book looks to the future and gives you guidance on understanding how further developments will affect you. Really understanding quantum computing requires a lot of math, and this book doesn't shy away from the necessary math concepts you'll

need. Each topic is introduced and explained thoroughly, in clear English with helpful examples. What you will learnSee how quantum computing works, delve into the math behind it, what makes it different, and why it is so powerful with this quantum computing textbookDiscover the complex, mind-bending mechanics that underpin quantum systemsUnderstand the necessary concepts behind classical and quantum computingRefresh and extend your grasp of essential mathematics, computing, and quantum theoryExplore the main applications of quantum computing to the fields of scientific computing, AI, and elsewhereExamine a detailed overview of qubits, quantum circuits, and quantum algorithmWho this book is for Dancing with Qubits is a quantum computing textbook for those who want to deeply explore the inner workings of quantum computing. This entails some sophisticated mathematical exposition and is therefore best suited for those with a healthy interest in mathematics, physics, engineering, and computer science.

iPhone 11 User Guide The Simple Manual to Understand Your iPhone 11 with Tips and Tricks After many speculations and wild guesses, the iPhone 11, which is the newest entry to the Apple iPhone family, is officially available. HURRAY! The device was introduced together with the iPhone 11 Pro and iPhone 11 Max to replace Apple's phased-out iPhone XR, XS and XS Max models. These latest iPhone devices came configured with the iOS software that was released in September 2019. The iPhone 11 looks stunning in videos but look even better physically. Have you recently acquired an iPhone 11? Are you searching for a detailed user guide to help you configure your new iPhone phone and understand it? Are you searching for a manual to uncover all of your latest device's great features? Are you curious to know what to do after unboxing it and undergoing the initial setup phase? Okay, this book is for you! The contents of this book are in clear and concise words, with a detailed approach to help you understand your device as quickly as possible. A look at this guide will teach you the following: How to Activate and Configure Your iPhone How to Add Password: Set Up Screen Lock How to Change the Auto-Lock (Screen Timeout) Time How to Insert Sim Card Properly How to Configure and Use Face ID to Unlock Your iPhone How to Turn "Tap to Wake" and "Raise to Wake" On and Off How to Block and Unblock a Number How to Make a Phone Call How to Setup Call forwarding How to Make Conference Call How to Navigate Your iPhone with Voice Control How to Find Your iPhone if Misplaced or Stolen ...and many more topics. Get this book to provide answers to all your questions about your new device. Hit the Buy Now button to get this book and enjoy doing more with your iPhone.

Arduino Programming The Ultimate Guide For Making the Best of your Arduino Programming Projects [Damon Parker](#) Are you new to Arduino programming? Would you like to expand your knowledge base about Arduino programming? Do you desire to enjoy the fantastic features of Arduino technology? If you said YES to any or all of the questions above, this book is all you need! Starting Arduino programming allows you to rapidly and intuitively develop your programming abilities through sketching in code. This book provides you with

an understanding of the standard structure for developing Arduino code, including the functions, syntax, structure, and libraries needed to produce future tasks. It is specifically written to help you get the understanding required to master the fundamental aspects of writing code on the Arduino platform and will have you all set to take the next step; to explore new project ideas, new kinds of hardware and contribute back to the open-source community, and even take on more programming projects. With this book, you can go from an Arduino beginner to an Arduino pro in a much shorter time! This is a resource book to get started with if you want to find out about the world of Arduino and how it changes the world we live in. This book will help you comprehend the basic principles of Arduino, its advantages, benefits, and applications in numerous markets and platforms. Completely simplified for easy understanding, this bestselling guide explains how to compose well-crafted sketches using Arduino's modified C language. You will discover how to configure software and hardware, develop your own sketches, deal with built-in and custom-made Arduino libraries, and check out the Internet of Things—all with no prior programming experience required. It teaches you everything you require to become proficient in Arduino from scratch. Learn the variants in Arduino, find out how to select Arduino boards and their technical specs, learn how to install Arduino IDE. That's what you'll find: • What Is Arduino Programming? • Introduction to Arduino Programming Language • How to Configure Arduino • Why Arduino? • The Arduino KIT • Arduino - Board Description • Arduino - Program Structure • Arduino - Variables and Constants • String Arrays Character • Manipulating String Arrays • Functions to Manipulate String Arrays • Arduino - String Object • Stating Arrays • Pins Configured as INPUT • Benefits and Disadvantages of Identical Communication And a lot more! You will also find out how to configure your Arduino interface board to pick up the physical world, control light, movement, and sound, and create objects with interesting features. This ultimate guide gets you up to speed quickly, teaching all the concepts and syntax through simple language and clear guidelines developed for outright beginners. It contains lots of top-quality illustrations and easy-to-follow examples. Are you ready to explore the amazing benefits of this book? Grab your copy now!