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This book documents and analyzes the existence of a strong, and growing, synergy between technological progress and the use of electrified production techniques in the United States during the twentieth century. The authors use two types of information in their work: case studies of the ways in which technological progress in particular industries and economic sectors has depended upon the adoption of electrified methods of production and aggregative long-term national economic statistics that measure the changing relationship over time between increases in the use of electricity and other factor inputs and the growth in industrial productivity. Eleven of the book's thirteen chapters cover the case studies, while the remaining two chapters and the statistical appendix contain the broad quantitative findings and supporting data.

This volume contains reports to the International Gearing Conference 1994. Key note addresses covered an overview of a five-year research development and test programme, and thoughts on the philosophy of gear inspection.

Master CNC macro programming CNC Programming Using Fanuc Custom Macro B shows you how to implement powerful, advanced CNC macro programming techniques that result in unparalleled accuracy, flexible automation, and enhanced productivity. Step-by-step instructions begin with basic principles and gradually proceed in complexity. Specific descriptions and programming examples follow Fanuc's Custom Macro B language with reference to Fanuc 0i series controls. By the end of the book, you will be able to develop highly efficient programs that exploit the full potential of CNC machines. COVERAGE INCLUDES: Variables and expressions Types of variables--local, global, macro, and system variables Macro functions, including trigonometric, rounding, logical, and conversion functions Branches and loops Subprograms Macro call Complex motion generation Paramet-

ric programming Custom canned cycles Probing Communication with external devices Programmable data entry

A practical guide to programming for data acquisition and measurement - must-have info in just the right amount of depth for engineers who are not programming specialists. This book offers a complete guide to the programming and interfacing techniques involved in data collection and the subsequent measurement and control systems using an IBM compatible PC. It is an essential guide for electronic engineers and technicians involved in measurement and instrumentation, DA&C programmers and students aiming to gain a working knowledge of the industrial applications of computer interfacing. A basic working knowledge of programming in a high-level language is assumed, but analytical mathematics is kept to a minimum. Sample listings are given in C and can be downloaded from the Newnes website. Practical guidance on PC-based acquisition Written for electronic engineers and software engineers in industry, not academics or computer scientists A textbook with strong foun-

dations in industry
This book will help you learn to hack in an easy and Step-By-Step method. Previously, only computer networks were getting hacked, but in today's modern world, technology has grown immensely and now many other fields are vulnerable to hacking. From laptops to smartphones to printers, our devices are getting more prone to hacking as hackers target common users to get access to their confidential information or bank details. We all are familiar with the term "HACKING". But have you ever wondered what it really is? What are the different types of Hackers? Who are the target victims of hackers? What things can be hacked by a hacker? How is it done? All these questions are answered here in this book. This book will cover all the aspects of hacking including: Hacking a website Hacking tools you must know including password crackers Hacking case studies Security breaches XSS security Bluetooth hacking Captcha techniques Spam, Trojan horses, Spoofing, Malware, and more Virus vs. Spyware - What is the difference? Are cookies safe? And much more! It has been designed to prepare

you to understand how you can keep yourself safe from hackers, the best practices for developing hack resilient web applications, and details about Cyber theft and its consequences. So What are you waiting for ? Grab your copy NOW !
Do you need to learn computer programming skills for your job or want to start it as a hobby? Is this something that is alien to you and leaves you scratching your head in confusion? Do you need something simple, like Linux, to get started? This book will provide the answers you need. Millions of us own computers for a variety of reasons. Some use them for gaming and fun while others are engaged in the serious business of making money. But many simply do not get true value from their computer as they struggle to understand programming and fail to grasp how it could improve their usage in many ways. Inside this book, Linux: The Ultimate Beginner's Guide to Learn Linux Operating System, Command Line and Linux Programming Step by Step, you will learn a valuable skill that will improve your computing expertise, leading you to discover the basics of Linux through chapters

that cover: • How to get started with Linux • Installation and troubleshooting tips and advice • Installing new and exciting software • System administration tasks • Keeping your system secure and building firewalls • An introduction to Cloud computing and technology • And lots more... Learning a computer language need not be a confusing and lengthy process. The basics of it can be learned quickly and with minimal effort and Linux is the book that will lay the foundations for you to become a skilled and proficient programmer, faster than you could have imagined. Get a copy now and start learning Linux today!

Korean: A Comprehensive Grammar is a reference to Korean grammar, and presents a thorough overview of the language, concentrating on the real patterns of use in modern Korean. The book moves from the alphabet and pronunciation through morphology and word classes to a detailed analysis of sentence structures and semantic features such as aspect, tense, speech styles and negation. Updated and revised, this new edition includes lively descriptions of Korean grammar, taking into account the latest research in Korean linguistics. More lower-frequency grammar patterns have been added, and extra examples have been included throughout the text. The unrivalled depth and range of this updated edition of Korean: A Comprehensive Grammar makes it an essential reference source on the Korean language.

Electrical engineering is a protean profession. Today the field embraces many disciplines that seem far removed from its roots in the telegraph, telephone, electric lamps, motors, and generators. To a remarkable extent, this chronicle of change and growth at a single institution is a capsule history of the discipline and profession of electrical engineering as it developed worldwide. Even when MIT was not leading the way, the department was usually quick to adapt to changing needs, goals, curricula, and research programs. What has remained constant throughout is the dynamic interaction of teaching and research, flexibility of administration, the interconnections with industrial progress and national priorities. The book's text and many photographs introduce readers to the renowned teachers and researchers who are still well known in engineering circles, among them: Vannevar Bush, Harold Hazen, Edward Bowles, Gordon Brown, Harold Edgerton, Ernst Guillemin, Arthur von Hippel, and Jay Forrester. The book covers the department's major areas of activity - electrical power systems, servomechanisms, circuit theory, communications theory, radar and microwaves (developed first at the famed Radiation Laboratory during World War II), insulation and dielectrics, electronics, acoustics, and computation. This rich history of accomplishments shows moreover that years before "Computer Science" was added to the department's name such pioneering results in computation and control as Vannevar Bush's Differential Analyzer, early cybernetic devices and numerically controlled servomechanisms, the Whirlwind computer, and the evolution of time-sharing computation had already been achieved. Karl Wildes has been associated with the Department of Electrical Engineering and Computer Science since the 1920s, and is now Professor Emeritus. Nilo Lindgren, an electrical engineering graduate of MIT and professional scientific

andtechnical journalist for many years, is at present affiliated with the Electric Power ResèarchInstitute in Palo Alto, California.

As politicians, citizens, and families continue the raging national debate on whether it's proper to end human life in the womb, resources like Randy Alcorn's Prolife Answers to Prochoice Arguments have proven invaluable. With over 75,000 copies in print, this revised and updated guide offers timely information and inspiration from a "sanctity of life" perspective. Real answers to real questions about abortion appear in logical and concise form. The final chapter -- "Fifty Ways to Help Unborn Babies and Their Mothers"-- is worth the price of this book alone!

A spectacular series of books perfect for young readers.

Cool writing journals with interesting and motivational quotes are the best choice for women and girls wants to go spend their life with power. Get this amazing sarcastic and hilarious journal and take it to work with you. Write all your important tasks, activities, and daily schedule in this journal and plan your entire day. 6x9 is the perfect size for

handling. With matte finish and high quality white paper, this makes up to be the best journal you can get to plan your everyday routine. Maintaining a writing journal is a healthy activity.

"CNC programmers and service technicians will find this book a very useful training and reference tool to use in a production environment. Also, it will provide the basis for exploring in great depth the extremely wide and rich field of programming tools that macros truly are."--- BOOK JACKET.

THIS BOOK INCLUDES 3 MANUSCRIPTS: - BOOK 1: Hacking with Kali Linux: Penetration Testing Hacking Bible- BOOK 2: Social Engineering Attacks, Techniques & Prevention- BOOK 3: Hacking Firewalls & Bypassing HoneypotsIn order to understand hackers and protect the network infrastructure you must think like a hacker in today's expansive and eclectic internet and you must understand that nothing is fully secured.This book will focus on some of the most dangerous hacker tools that are favourite of both, White Hat and Black Hat hackers.If you attempt to use any of the tools discussed in this book on a

network without being authorized and you disturb or damage any systems, that would be considered illegal black hat hacking. So, I would like to encourage all readers to deploy any tool described in this book for WHITE HAT USE ONLY.The focus of this book will be to introduce some of the best well known software that you can use for free of charge, furthermore where to find them, how to access them, and finally in every chapter you will find demonstrated examples step-by-step.There are many step by step deployment guides on how to plan a successful penetration test and examples on how to manipulate or misdirect trusted employees using social engineering.BUY THIS BOOK NOW AND GET STARTED TODAY!IN THIS BOOK YOU WILL LEARN: -How to Install Kali Linux & TOR-How to use BurpSuite for various attacks-SSL & CMS Scanning Techniques-Port Scanning & Network Sniffing-How to Configure SPAN-How to implement SYN Scan Attack-How to Brute Force with Hydra-How to use Low Orbit ion Cannon-How to use Netcat, Meterpreter, Armitage, SET -How to deploy Spear Phishing & PowerShell Attack-How to de-

ploy various Wireless Hacking Attacks-How to use Deep Magic, Recon-ng, HTTrack, Weevely, H-ping_3, EtterCAP, Xplico, Scapy, Parasite6, The Metasploit Framework, Credential Harvester and MANY MORE KALI LINUX HACKING TOOLS...-Phishing, Vishing, Smishing, Spear Phishing and Whaling-The history of social engineering-Psychological manipulation-Human Weaknesses-Social Engineering Categories-Cold Call Virus Scams-Authority & Fear Establishment-Executing the Social Engineering Attack-Signifying Legitimacy by Providing Value-Open--Source Intelligence-Organizational Reconnaissance-Identifying Targets Within an Organization-In-person social engineering techniques-Dumpster Diving & Data Breaches-Phishing Page Types-Filter Evasion Techniques-How to use PhishTank and Phish5-Identity Theft and Impersonation-Social Engineering Countermeasures-Paper & Digital Record Destruction-Physical Security Measures-Principle of Least Privilege-2FA & Side Channel ID Verification-Logging & Monitoring-How to respond to an Attack-Tips to Avoid Being a Victim-What is The OSI Model-What are Zone Based Firewalls-Fire-

wall Behavior and TCP State Table-Network Address Translation-Port Address Translation-Demilitarized Zone-TCP & UDP Traffic on Firewalls-Client Connection Process -System Intrusion Indicators-Indicators of Network Intrusion-Anomalous Behaviour-Firewall Implementations & Architectures--Packet Filtering Firewalls--Circuit-level Gateway-Application Firewalls-Stateful Firewalls-Next-Gen Firewalls-Detecting Firewalls-IP address spoofing--Source Routing-Tiny fragment attack-Tunneling-Evasion Tools-Intrusion Detection Systems-Signature-based IDS-Statistical Anomaly-based IDS-Network-Based IDS-Host Intrusion Detection System-Evasion by Confusion-Fragmentation attack-Overlapping Fragments Attack--Time-to-Live attack-DoS Attack & Flooding Attack--IDS weakness Detection-Honeypot Types & Honeypot DetectionBUY THIS BOOK NOW AND GET STARTED TODAY!

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 Raspber-

ry 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.

The Manual of Tests and Criteria contains criteria, test methods and procedures to be used for classification of dangerous goods according to the provisions of Parts 2 and 3 of the United Nations Recommendations on the Transport of Dangerous Goods, Model Regulations, as well as of chemicals presenting physical hazards according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). As a consequence, it supplements also national or international regulations which are derived from the United Nations Recommendations on the Transport of Dangerous Goods or the GHS. At its ninth session (7 December 2018), the Committee adopted a set of amendments to the sixth revised edition of the Manual as amended by Amendment 1. This seventh revised edition takes account of these amendments. In addition, noting that the work to facilitate the use

of the Manual in the context of the GHS had been completed, the Committee considered that the reference to the "Recommendations on the Transport of Dangerous Goods" in the title of the Manual was no longer appropriate, and decided that from now on, the Manual should be entitled "Manual of Tests and Criteria".

Computer Numerical Control (CNC) controllers are high value-added products counting for over 30% of the price of machine tools. The development of CNC technology depends on the integration of technologies from many different industries, and requires strategic long-term support. "Theory and Design of CNC Systems" covers the elements of control, the design of control systems, and modern open-architecture control systems. Topics covered include Numerical Control Kernel (NCK) design of CNC, Programmable Logic Control (PLC), and the Man-Machine Interface (MMI), as well as the major modules for the development of conversational programming methods. The concepts and primary elements of STEP-NC are also introduced. A collaboration of several authors

with considerable experience in CNC development, education, and research, this highly focused textbook on the principles and development technologies of CNC controllers can also be used as a guide for those working on CNC development in industry. Functional Programming in Kotlin is a serious tutorial for programmers looking to learn FP and apply it to the everyday business of coding. Based on the bestselling Functional Programming in Scala, this book guides intermediate Java and Kotlin programmers from basic techniques to advanced topics in a logical, concise, and clear progression. In this authoritative guide, you'll take on the challenge of learning functional programming from first principles, and start writing Kotlin code that's easier to read, easier to reuse, better for concurrency, and less prone to bugs and errors. Functional Programming in Kotlin is a serious tutorial for programmers looking to learn FP and apply it to the everyday business of coding. Based on the bestselling Functional Programming in Scala, this book guides intermediate Java and Kotlin programmers from basic techniques to advanced topics in a logical,

concise, and clear progression. In it, you'll find concrete examples and exercises that open up the world of functional programming. The book will deliver practical mastery of FP using Kotlin and a valuable perspective on program design that you can apply to other languages. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. Study & Master Life Sciences Grade 10 has been especially developed by an experienced author team for the Curriculum and Assessment Policy Statement (CAPS). This new and easy-to-use course helps learners to master essential content and skills in Life Sciences. The comprehensive Learner's Book includes: * an expanded contents page indicating the CAPS coverage required for each strand * a mind map at the beginning of each module that gives an overview of the contents of that module * activities throughout that help develop learners' science knowledge and skills as well as Formal Assessment tasks to test their learning * a review at the end of each unit that provides for consolidation of learning * case studies

that link science to real-life situations and present balanced views on sensitive issues. * 'information' boxes providing interesting additional information and 'Note' boxes that bring important information to the learner's attention 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. Provides information for seniors on how to use the phone to make and receive calls, send text messages, browse the Web, download and manage applications, take photographs and videos, and purchase music. This remarkable account describes the development of numerical control, the principal method used in the automatic control of machine tools. The technique, was pioneered and perfected at MIT during two decades of exciting work, from 1950 to 1970. The author was a direct participant in the engineering program that originated numerical control,

and was involved in many of the most important decisions surrounding its evolution. He tells how the technique rose from a futuristic concept to mass-production reality, one that is essential for modern standards of industrial manufacturing. The book documents the entire process of innovation, including the scope of the original research, and the institutional and cultural environment in which it took place. The author chronicles all three main phases of effort: the numerically controlled milling machine, the automatically programmed tool system, and the computer-aided design research. More recent developments are reviewed, and the author points to the need for similar research programs in order to restore U.S. industry to a position of world leadership. The book will interest all those involved in planning and implementing innovative industrial research programs, along with historians of technology and engineering.

For the Vampire community, the Solstice Choosing has been the holiest night of the year - for a hundred thousand years. But this year, something new is about to happen. The old-est prophecies are about to be fulfilled - and the Festival of Blessings is finally upon us.

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.

Designing iOS mobile apps using simple Swift codes and libraries. KEY FEATURES ● Combines the fundamentals of Swift and power-packed libraries, including SwiftUI. ● Includes graphical illustrations and step-by-step instructions on coding your first iOS application. ● Covers end-to-end iOS app development with code debugging and best practices. DESCRIPTION 'Swift in 30 Days' teaches young graduates and coding applicants to enter the field of rapid development of applications through simplified, pragmatic, and quick programming learning without much theory. The book examines the basics of Swift programming, fundamental Swift building blocks, how to write syntax, constructs, define classes, arrays, model data with interfaces, and several examples of Swift programming. The book will help you to create the environment for app development, including tools and libraries like Xcode and SwiftUI. You will learn to work with Xcode and Swift libraries and finally make an independently developed Swift application. You will have access to design patterns and learn how to handle errors, debug, and work with protocols. By the end of this book, you will become a trusted Swift programmer and a successful iOS developer who will dive deeper into Apple's intelligent app programming challenge. WHAT YOU WILL LEARN ● Create an iOS app from scratch and learn fundamental Swift concepts such as operators and control flow. ●

Create intuitive and intelligent user interfaces with an understanding of self--design and constraints. ● Recap OOP concepts and Swift protocol-based programming. ● Work with design patterns, write clean codes, and build expert tables and navigations. ● Work with Xcode and SwiftUI 2.0. WHO THIS BOOK IS FOR This book is for students, graduates, and entry-level coders who want to learn iOS app development without prior Swift or mobile app development experience. TABLE OF CONTENTS Week 1 (Beginner) 1. Building Your First App 2. Swift Programming Basics 3. Auto Layout 4. Types and Control Flow Week 2 (Intermediate) 5. Optional Type and More 6. Code Structuring Week 3 (Advanced) 7. OOP in Swift 8. Protocols and Delegates Week 4 (Bonus) 9. Error handling and Debugging 10. SwiftUI

Power Converter with Digital Filter Feedback Control presents a logical sequence that leads to the identification, extraction, formulation, conversion, and implementation for the control function needed in electrical power equipment systems. This book builds a bridge for moving a power converter with conventional analog feedback to one with modern digital filter control and enlists the state space averaging technique to identify the core control function in analytical, close form in s-domain (Laplace). It is a useful reference for all professionals and electrical engineers engaged in electrical power equipment/systems design, integration, and management. Offers logical sequences to identification, extraction, formulation, conversion, and implementation for the control function needed Contains step-by-step instructions on how to take existing analog designed power processors and move them to the digital realm Presents ways to extract gain functions for many power converters' power processing stages and their supporting circuitry

The book is a focused and step-by-step tutorial on Microsoft Dynamics CRM Reporting capabilities. It will enable Dynamics developers to create and manage reports, know what tools to use, how to use them, and where to find the data based on how it's being entered into the system with Dynamics CRM.This book is great for users and developers new to the Dynamics CRM Reports and SQL Server Reporting services, and who are looking to get a good grounding in how to use the reporting capabilities of Dynamics CRM 2011. It's assumed that you will have some experience in HTML and JavaScript already to build the advanced reports, but no previous programming experience is required to build and learn how to create some basic to intermediate reports, which will be used during the exercises within this book.

Provides step-by-step instructions for designing, constructing, and testing a fully functional CNC robot.