Raspberry Pi 2 Ebook777

Understand every chapter and vision in the Book of Daniel and the Book of Revelation. In this book, we identify the mark of the beast, the timing of the rapture, the history of Islam and the church. The LORD's return is near. Wake up sleeping Christian. This is not the time to care much for self-pleasure. It is a time to stand strong in faith. This book is, "A MUST READ FOR EVERY CHRISTIAN"

Stencyl EssentialsPackt Publishing Ltd

Directing: Film Techniques and Aesthetics is a comprehensive manual that teaches the essentials of filmmaking from the perspective of the director. Ideal for film production and directing classes, as well as for aspiring and current directors, Directing covers all phases of preproduction and production, from idea development to final cut. Thoroughly covering the basics, Directing guides the reader to professional standards of expression and control, and goes to the heart of what makes a director. The book outlines a great deal of practical work to meet this goal, with projects, exercises. The third edition emphasizes the connection between knowing and doing, with every principle realizable through projects and exercises. Much has been enhanced and expanded, notably: aspects of dramaturgy; beats and dramatic units; pitching stories and selling one's work; the role of the entrepreneurial producer; and the dangers of embedded moral values. Checklists are loaded with practical recommendations for action, and outcomes assessment tables help the reader honestly gauge his or her progress. Entirely new chapters present: preproduction procedures; production design; script breakdown; procedures and etiquette on the set; shooting location sound; continuity; and working with a composer. The entire book is revised to capitalize on the advantages offered by the revolutionary shift to digital filmmaking.

Summary Programming for Musicians and Digital Artists: Creating Music with ChucK offers a complete introduction to programming in the open source music language ChucK. In it, you'll learn the basics of digital sound creation and manipulation while you discover the ChucK language. As you move example-by-example through this easy-to-follow book, you'll create meaningful and rewarding digital compositions and "instruments" that make sound and music in direct response to program logic, scores, gestures, and other systems connected via MIDI or the network. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About this Book A digital musician must manipulate sound precisely. ChucK is an audio-centric programming language that provides precise control over time, audio computation, and user interface elements like track pads and joysticks. Because it uses the vocabulary of sound, ChucK is easy to learn even for artists with little or no exposure to computer programming. Programming for Musicians and Digital Artists offers a complete introduction to music programming. In it, you'll learn the basics of digital sound manipulation while you learn to program using ChucK. Example-by-example, you'll create meaningful digital compositions and "instruments" that respond to program logic, scores, gestures, and other systems connected via MIDI or the network. You'll also experience how ChucK enables the on-the-fly musical improvisation practiced by communities of "live music coders" around the world. Written for readers familiar with the vocabulary of sound and music. No experience with computer programming is required. What's Inside Learn ChucK and digital music creation side-by-side Invent new sounds, instruments, and modes of performance Written by the creators of the ChucK language About the Authors Perry Cook, Ajay Kapur, Spencer Salazar, and Ge Wang are pioneers in the area of teaching and programming digital music. Ge is the creator and chief architect of the ChucK language. Table of Contents Introduction: ChucK programming for artistsPART 1 INTRODUCTION TO PROGRAMMING IN CHUCK Basics: sound, waves, and ChucK programming Libraries: ChucK's built-in tools Arrays: arranging and accessing your compositional data Sound files and sound manipulation Functions: making your own tools PART 2 NOW IT GETS REALLY INTERESTING! Unit generators: ChucK objects for sound synthesis and processing Synthesis ToolKit instruments Multithreading and concurrency: running many programs at once Objects and classes: making your own ChucK power tools Events: signaling between shreds and syncing to the outside world Integrating with other systems via MIDI, OSC, serial, and more

Step up your SAP PP game! Learn how to configure SAP ERP Production Planning for discrete, process, and repetitive manufacturing and master BOM status definitions, process message characteristics, and master data. Dive into SAP PP workflows and use Process Management, release production orders, and create planning tables. Covering everything from S&OP and MRP to SAP Demand Management and the Early Warning System, this book will help you get your production process to maximum efficiency!

A fully updated edition of a popular textbook covering the four disciplines of chemical technology?featuring new developments in the field Clear and thorough throughout, this textbook covers the major sub-disciplines of modern chemical technology?chemistry, thermal and mechanical unit operations, chemical reaction engineering, and general chemical technology?alongside raw materials, energy sources and detailed descriptions of 24 important industrial processes and products. It brings information on energy and raw material consumption and production data of chemicals up to date and offers not just improved and extended chapters, but completely new ones as well. This new edition of Chemical Technology: From Principles to Products features a new chapter illustrating the global economic map and its development from the 15th century until today, and another on energy consumption in human history. Chemical key technologies for a future sustainable energy system such as power-to-X and hydrogen storage are now also examined. Chapters on inorganic products, material reserves, and water consumption and resources have been extended, while another presents environmental aspects of plastic pollution and handling of plastic waste. The book also adds four important processes to its pages: production of titanium dioxide, silicon, production and chemical recycling of polytetrafluoroethylene, and fermentative synthesis of amino acids. -Provides comprehensive coverage of chemical technology?from the fundamentals to 24 of the most important processes -Intertwines the four disciplines of chemical technology: chemistry, thermal and mechanical unit operations, chemical reaction engineering and general chemical technology -Fully updated with new content on: power-to-X and hydrogen storage; inorganic products, including metals, glass, and ceramics; water consumption and pollution; and additional industrial processes -Written by authors with extensive experience in teaching the topic and helping students understand the complex concepts Chemical Technology: From Principles to Products, Second Edition is an ideal textbook for advanced students of chemical technology and will appeal to anyone in chemical engineering.

NOTE: The Binder-ready, Loose-leaf version of this text contains the same content as the Bound, Paperback version. Fundamentals of Fluid Mechanic, 8th Edition offers comprehensive topical coverage, with varied examples and problems, application of visual component of fluid mechanics, and strong focus on effective learning. The text enables the gradual development of confidence in problem solving. The authors have designed their presentation to enable the gradual development of reader confidence in problem solving. Each important concept is introduced in easy-to-understand terms before more complicated examples are discussed. Continuing this book's tradition of extensive real-world applications, the 8th edition includes more Fluid in the News case study boxes in each chapter, new problem types, an increased number of real-world photos, and additional videos to augment the text material and help generate student interest in the topic. Example problems have been updated and numerous new photographs, figures, and graphs have been included. In addition, there are more videos designed to aid and enhance comprehension, support visualization skill building and engage students more deeply with the material and concepts.

Target Audience This book is not for professional hackers. Instead, this book is made for beginners who have programming experience and are interested in hacking. Here, hacking techniques that can be easily understood have been described. If you only have a home PC, you can test all the examples provided here. I have included many figures that are intuitively understandable rather than a litany of explanations. Therefore, it is possible to gain some practical experience while hacking, since I have only used examples that can actually be implemented.

This book is therefore necessary for ordinary people who have a curiosity of hackers and are interested in computers. Organization of the Book This book is made up of five major parts, from basic knowledge to actual hacking code. A beginner is naturally expected to become a hacker while reading this book. Hacking Preparation Briefly introduce the basic Python syntax that is necessary for hacking. Application Hacking Introduce the basic skills to hack an application, such as Keyboard hooking, API hooking and image file hacking. Web Hacking The Virtual Box test environment configuration is used for a Web Shell attack to introduce web hacking, which is currently an important issue. The techniques include SQL Injection, Password Cracking, and a Web Shell Attack. Network Hacking A variety of tools and the Python language can be combined to support network hacking and to introduce the network hacking technique. Briefly, we introduce NMap with the Wireshark tool, and hacking techniques such as Port Scanning, Packet Sniffing, TCP SYN Flood, Slowris Attack are introduced. System Hacking System hacking is difficult to understand for beginners, and in this section, figures are used to introduce difficult concepts. The hacking techniques that are introduced include a Backdoor, Registry Handling, Stack Based Buffer Overflow, and SEH Based Buffer Overflow. While reading this book, it is possible to obtain answers for such problems one by one. After reading the last chapter, you will gain the confidence to be a hacker. Features of this book When you start to study hacking, the most difficult task is to configure the test environment. There are many problems that need to be addressed, such as choosing from the variety in operating systems, obtaining expensive equipment and using complex technology. Such problems are too difficult to take in at once, so this book overcomes this difficulty by implementing a simple idea. First, systems will be described as Windows-based. We are very familiar with Windows, so it is very easy to understand a description based on Windows. Since Windows, Linux, Unix, and Android are all operating systems, it is possible to expand the concepts that are discussed here. Second, we use a virtual machine called Virtual Box. For hacking, it is necessary to connect at least three or more computers on a network. Since it is a significant investment to buy a few computers only to study these techniques, a virtual machine can be used instead to easily implement a honeypot necessary to hack by creating multiple virtual machines on a single PC. Finally, abstract concepts are explained using figures. Rather than simply using words for descriptions, graphics are very effective in transferring information. An abstract concept can materialize through the use of graphics in order to improve the understanding on the part of the reader.

For courses in computer programming and engineering. This package includes MyProgrammingLab(tm) Beginner to Intermediate Programming in Java This book is designed to serve as a textbook and reference for programming in the Java language. Although it does include programming techniques, it is organized around the features of the Java language rather than any particular curriculum of programming techniques. The main audience is undergraduate students who have not had extensive programming experience with the Java language. The introductory chapters are written at a level that is accessible to beginners, while the boxed sections of those chapters serve to quickly introduce more experienced programmers to basic Java syntax. Later chapters are still designed to be accessible, but are written at a level suitable for students who have progressed to these more advanced topics. This package includes MyProgrammingLab, an online homework, tutorial, and assessment program designed to work with this text to engage students and improve results. Within its structured environment, students practice what they learn, test their understanding, and pursue a personalized study plan that helps them better absorb course material and understand difficult concepts. MyProgrammingLab should only be purchased when required by an instructor. Please be sure you have the correct ISBN and Course ID. Instructors, contact your Pearson representative for more information.

The mechanical engineering curriculum in most universities includes at least one elective course on the subject of reciprocating piston engines. The majority of these courses today emphasize the application of thermodynamics to engine ef?ciency, performance, combustion, and emissions. There are several very good textbooks that support education in these aspects of engine development. However, in most companies engaged in engine development there are far more engineers working in the areas of design and mechanical development. University studies should include opportunities that prepare engineers desiring to work in these aspects of engine development as well. My colleagues and I have undertaken the development of a series of graduate courses in engine design and mechanical development. In doing so it becomes quickly apparent that no suitable te- book exists in support of such courses. This book was written in the hopes of beginning to address the need for an engineering-based introductory text in engine design and mechanical development. It is of necessity an overview. Its focus is limited to reciprocating-piston internal-combustion engines – both diesel and spa- ignition engines. Emphasis is speci?cally on automobile engines, although much of the discussion applies to larger and smaller engines as well. A further intent of this book is to provide a concise reference volume on engine design and mechanical development processes for engineers serving the engine industry. It is intended to provide basic information and most of the chapters include recent references to guide more in-depth study.

The Architect's Brain: Neuroscience, Creativity, and Architecture is the first book to consider the relationship between the neurosciences and architecture, offering a compelling and provocative study in the field of architectural theory. Explores various moments of architectural thought over the last 500 years as a cognitive manifestation of philosophical, psychological, and physiological theory Looks at architectural thought through the lens of the remarkable insights of contemporary neuroscience, particularly as they have advanced within the last decade Demonstrates the neurological justification for some very timeless architectural ideas, from the multisensory nature of the architectural experience to the essential relationship of ambiguity and metaphor to creative thinking

This fully revised and updated text is a comprehensive introduction to astronomical objects and phenomena. By applying some basic physical principles to a variety of situations, students will learn how to relate everyday physics to the astronomical world. Starting with the simplest objects, the text contains explanations of how and why astronomical phenomena occur, and how astronomers collect and interpret information about stars, galaxies and the solar system. The text looks at the properties of stars, star formation and evolution; neutron stars and black holes; the nature of galaxies; and the structure of the universe. It examines the past, present and future states of the universe; and final chapters use the concepts that have been developed to study the solar system, its formation; the possibility of finding other planetary systems; and the search for extraterrestrial life. This comprehensive text contains useful equations, chapter summaries, worked examples and end-of-chapter problem sets.

1.f4 is the Bird opening. It was played by Henry Bird. He wanted to leave the mainstream and create new original positions. He liked a setup with b3 and Bb2. The Polar Bear System (PBS) was played with the same intention. To leave the trodden theory paths and enter new undiscovered terrain. The system starts with a fianchetto of the Kings bishop after 1.f4, d5. PBS players want to enter interesting and original positions where it is difficult for Black to play for a flat equality. The book is for club players but also professionals can get inspiration. The book contains both volume 1 & volume 2. Grandmaster in chess. Henrik Danielsen www.polarbearsystem.com

In The Cult of LEGO, Wired's GeekDad blogger John Baichtal and BrickJournal founder Joe Meno take you on a magnificent, illustrated tour of the LEGO® community, its people, and their creations. The Cult of LEGO introduces us to fans and builders from

all walks of life. People like professional LEGO artist Nathan Sawaya; enigmatic Dutch painter Ego Leonard (who maintains that he is, in fact, a LEGO minifig); Angus MacLane, a Pixar animator who builds CubeDudes, instantly recognizable likenesses of fictional characters; Brick Testament creator Brendan Powell Smith, who uses LEGO to illustrate biblical stories; and Henry Lim, whose work includes a series of models recreating M.C. Escher lithographs and a full-scale, functioning LEGO harpsichord. Marvel at spectacular LEGO creations like: –A life-sized Stegosaurus and an 80,000-brick T. Rex skeleton –Detailed microscale versions of landmarks like the Acropolis and Yankee Stadium –A 22-foot long, 350-pound re-creation of the World War II battleship Yamato –A robotic, giant chess set that can replay historical matches or take on an opponent –A three-level, remote-controlled Jawa Sandcrawler, complete with moving conveyor belt Whether you're a card-carrying LEGO fanatic or just thinking fondly about that dusty box of LEGO in storage, The Cult of LEGO will inspire you to take out your bricks and build something amazing.
Author and award-winning scholar-professor Fred Kleiner continues to set the standard for art history textbooks, combining impeccable and authoritative scholarship with an engaging approach that discusses the most significant artworks and monuments in their full historical and cultural contexts. The most widely read and respected history of art and architecture in the English language for over 85 years, the 15th edition of GARDNER'S ART THROUGH THE AGES: A GLOBAL HISTORY, VOLUME I includes nearly 200 new images, new pedagogical box features, images that have been upgraded for clarity and color-fidelity, revised and improved maps and architectural reconstructions, and more. More than 40 reviewers -- both generalists and specialists -- contributed to the accuracy and readability of this edition. GARDNER's has built its stellar reputation on up-to-date and extensive scholarship, reproductions of unsurpassed quality, the consistent voice of a single storyteller, and more online resources and help for students and instructors than any other art survey text. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.
The gold standard in analytical chemistry, Dan Harris’ Quantitative Chemical Analysis provides a sound physical understanding of the principles of analytical chemistry and their applications in the disciplines.
This Colour Handbook reviews the natural predators, parasites and pathogens used to control pest populations and analyses their characteristics and practical applications. It is designed to enable the reader to anticipate, recognise and resolve specific problems of pest management. Intended as a concise accessible reference to the field, this book will be of interest to a broad spectrum of academic, professional and lay readers; the growers and the consultants advising them, students in horticulture and crop science and scientists in a broad range of related disciplines. ? Superb, detailed colour photographs and line drawings of predator, parasite and pest species. ? Accessible, practical format. ? Covers all the major commercial planting environments; Arable, Orchard, Glasshouse and Ornamental (parks and gardens). ? Unique world wide coverage. ? Comperhensively corss–referenced by crop, pest, and pest control species (parasites and predators).
Prelude to Programming is appropriate for Pre-Programming and Introductory Programming courses in community colleges, 4-year colleges, and universities. No prior computer or programming experience is necessary although readers are expected to be familiar with college entry-level mathematics. Prelude to Programming provides beginning students with a language-independent framework for learning core programming concepts and effective design techniques. This approach gives students the foundation they need to understand the logic behind program design and to establish effective programming skills. The Sixth Edition offers students a lively and accessible presentation as they learn core programming concepts — including data types, control structures, data files and arrays, and program design techniques such as top-down modular design and proper program documentation and style. Problem-solving skills are developed when students learn how to use basic programming tools and algorithms, which include data validation, defensive programming, calculating sums and averages, and searching and sorting lists. Teaching and Learning Experience This program presents a better teaching and learning experience–for you and your students. It provides: A Language-Independent, Flexible Presentation: The text has been designed so that instructors can use it for students at various levels. Features that Help Solidify Concepts: Examples, exercises, and programming challenges help students understand how concepts in the text apply to real-life programs. Real Programming Experience with RAPTOR: Students gain first-hand programming experience through the optional use of RAPTOR, a free flowchart-based programming environment. Support Learning: Resources are available to expand on the topics presented in the text.
Forensic Analysis of Tattoos and Tattoo Inks is the single most comprehensive resource on the analysis of tattoo inks and use of tattoos as a tool in forensic investigations and criminalistics. The book begins with a history of tattoos and tattoo inks, and covers the use of tattoos throughout time as aids in the identification of individuals. It presents identification methods of identification through tattoos on charred, decomposed, mummified, or otherwise unidentifiable remains in both criminal investigations and mass disasters. This book provides an understanding of the process of tattooing and the roles of tattoos in criminological inquiry and legal matters. It scientifically evaluates tattoo inks, documenting the physical properties of the inks both macroscopically and microscopically as well as spectroscopically--identifying the optical and chemical properties of the various pigments found in these inks. A thorough analytical method is developed to conform to current laboratory accreditation standards and the satisfaction of legal standards such as Frye, Daubert and the Federal Rules of Evidence. Forensic Analysis of Tattoos and Inks shows how routine scientific inquiry can be applied to tattoo evidence by adding an objective component to interpretation, identification, and individualization of tattoos and tattoo inks in investigations. It presents the science and chemistry of tattoos and tattoo inks as a reliable tool in forensic casework and other related criminal and legal matters.
Suitable for a one- or two-semester course, Advanced Calculus: Theory and Practice expands on the material covered in elementary calculus and presents this material in a rigorous manner. The text improves students’ problem-solving and proof-writing skills, familiarizes them with the historical development of calculus concepts, and helps them understand the connections among different topics. The book takes a motivating approach that makes ideas less abstract to students. It explains how various topics in calculus may seem unrelated but in reality have common roots. Emphasizing historical perspectives, the text gives students a glimpse into the development of calculus and its ideas from the age of Newton and Leibniz to the twentieth century. Nearly 300 examples lead to important theorems as well as help students develop the necessary skills to closely examine the theorems. Proofs are also presented in an accessible way to students. By strengthening skills gained through elementary calculus, this textbook leads students toward mastering calculus techniques. It will help them succeed in their future mathematical or engineering studies.
The regular intake of dairy and calcium supplementation promotes degenerative disease and significantly shortenslife.
The Definitive Guide to HTML & CSS--Fully Updated Written by a Web development expert, the fifth edition of this trusted resource has been thoroughly revised and reorganized to address HTML5, the revolutionary new Web standard. The book covers all the elements supported in today's Web browsers--from the standard (X)HTML tags to the archaic and proprietary tags that may be encountered. HTML & CSS: The Complete Reference, Fifth Edition contains full details on CSS 2.1 as well as every proprietary and emerging CSS3 property currently supported. Annotated examples of correct markup and style show you how to use all of these technologies to build impressive Web pages. Helpful appendixes cover the syntax of character entities, fonts, colors, and URLs. This comprehensive reference is an essential tool for professional Web developers. Master transitional HTML 4.01 and XHTML 1.0 markup Write emerging standards-based markup with HTML5

Enhance presentation with Cascading Style Sheets (CSS1 and CSS 2.1) Learn proprietary and emerging CSS3 features Learn how to read (X)HTML document type definitions (DTDs) Apply everything in an open standards-focused fashion Thomas A. Powell is president of PINT, Inc. (pint.com), a nationally recognized Web agency. He developed the Web Publishing Certificate program for the University of California, San Diego Extension and is an instructor for the Computer Science Department at UCSD. He is the author of the previous bestselling editions of this book and Ajax: The Complete Reference, and co-author of JavaScript: The Complete Reference.

The idea of light as an integral part of all life and creation was evident since the beginning of time. From the very first sunrise, to the daily sunsets of the present, we continue to be awed by the beauty, power, life creating and life sustaining properties and emanations of light. The rainbow, truly a miracle of nature, confirms not only the importance of color, but specifically those portions of the spectrum for which the human organism is attuned. During the early 1920s, science had begun to speculate that the power of light was primarily transmitted to the core of the human organism by the organ of sight - the eyes. It was in that same period of time that one man, Dr. Harry Riley Spitler, theorized in great detail the role of the eyes in phototransduction, as well as the role of light and color in total organismic function and development. Most of his work has been scientifically validated, and represents the foundation of one of today's most advanced approaches to phototherapy: syntonics. Syntonics, utilized clinically for more than sixty years within the field of Optometry, is that branch of ocular science dealing with the application of selected visible light frequencies through the eyes. This ocular application of light has been utilized with great success in the treatment of various visual dysfunctions associated with strabismus, amblyopia, accomodative/convergence problems, visual field constrictions, head trauma, and visually related learning problems. The results of these relatively short term treatments usually yield significant improvements in visual skills, visual field size, memory, general performance, behavior, mood, and academic achievement. Now we notice that phototherapy is becoming an increasingly prevalent therapeutic tool within the medical community. We are proud to be part of the lineage of vision specialists who discovered, researched and consistently cultivated the science of ocular phototherapy: Syntonics.

Build a better defense against motivated, organized, professional attacks Advanced Penetration Testing: Hacking the World's Most Secure Networks takes hacking far beyond Kali linux and Metasploit to provide a more complex attack simulation. Featuring techniques not taught in any certification prep or covered by common defensive scanners, this book integrates social engineering, programming, and vulnerability exploits into a multidisciplinary approach for targeting and compromising high security environments. From discovering and creating attack vectors, and moving unseen through a target enterprise, to establishing command and exfiltrating data—even from organizations without a direct Internet connection—this guide contains the crucial techniques that provide a more accurate picture of your system's defense. Custom coding examples use VBA, Windows Scripting Host, C, Java, JavaScript, Flash, and more, with coverage of standard library applications and the use of scanning tools to bypass common defensive measures. Typical penetration testing consists of low-level hackers attacking a system with a list of known vulnerabilities, and defenders preventing those hacks using an equally well-known list of defensive scans. The professional hackers and nation states on the forefront of today's threats operate at a much more complex level—and this book shows you how to defend your high security network. Use targeted social engineering pretexts to create the initial compromise Leave a command and control structure in place for long-term access Escalate privilege and breach networks, operating systems, and trust structures Infiltrate further using harvested credentials while expanding control Today's threats are organized, professionally-run, and very much for-profit. Financial institutions, health care organizations, law enforcement, government agencies, and other high-value targets need to harden their IT infrastructure and human capital against targeted advanced attacks from motivated professionals. Advanced Penetration Testing goes beyond Kali linux and Metasploit and to provide you advanced pen testing for high security networks.

Uncover the secrets of Linux binary analysis with this handy guide About This Book Grasp the intricacies of the ELF binary format of UNIX and Linux Design tools for reverse engineering and binary forensic analysis Insights into UNIX and Linux memory infections, ELF viruses, and binary protection schemes Who This Book Is For If you are a software engineer or reverse engineer and want to learn more about Linux binary analysis, this book will provide you with all you need to implement solutions for binary analysis in areas of security, forensics, and antivirus. This book is great for both security enthusiasts and system level engineers. Some experience with the C programming language and the Linux command line is assumed. What You Will Learn Explore the internal workings of the ELF binary format Discover techniques for UNIX Virus infection and analysis Work with binary hardening and software anti-tamper methods Patch executables and process memory Bypass anti-debugging measures used in malware Perform advanced forensic analysis of binaries Design ELF-related tools in the C language Learn to operate on memory with ptrace In Detail Learning Linux Binary Analysis is packed with knowledge and code that will teach you the inner workings of the ELF format, and the methods used by hackers and security analysts for virus analysis, binary patching, software protection and more. This book will start by taking you through UNIX/Linux object utilities, and will move on to teaching you all about the ELF specimen. You will learn about process tracing, and will explore the different types of Linux and UNIX viruses, and how you can make use of ELF Virus Technology to deal with them. The latter half of the book discusses the usage of Kprobe instrumentation for kernel hacking, code patching, and debugging. You will discover how to detect and disinfect kernel-mode rootkits, and move on to analyze static code. Finally, you will be walked through complex userspace memory infection analysis. This book will lead you into territory that is uncharted even by some experts; right into the world of the computer hacker. Style and approach The material in this book provides detailed insight into the arcane arts of hacking, coding, reverse engineering Linux executables, and dissecting process memory. In the computer security industry these skills are priceless, and scarce. The tutorials are filled with knowledge gained through first hand experience, and are complemented with frequent examples including source code.

Dave Zimmerman takes you step-by-step through the journey of understanding great amp tone and how to achieve it by making simple tweaks to your current rig. Never before published Speaker Ohms and Power Tubal Tone charts along with a Glossary of Tonal Terms and in-depth discussion of Cords and Cables make this unique guide a must for all players novice and pro.

Forensic Chemistry is a comprehensive overview of the subject aimed at those students who have a basic understanding of the underlying principles and are looking for a more detailed reference text. This book is aimed at advanced students who are studying forensic science or analytical chemistry, faculty and researchers, and practitioners such as crime laboratory bench scientists. The authors will assume that the reader will have an introductory knowledge of forensic science and forensic chemistry and will have had analytical, organic and instrumental chemistry. None of the major analytical chemical techniques will have separate treatments in the book, with the exception of forensic microscopy, which will have a chapter because many students in chemistry and forensic science do not get dedicated classes in this

area. The book will have separate chapters on all of the major areas of forensic chemistry and, in addition, will have a chapter devoted to chemometrics, which is the statistical treatment of large amounts of data to discover groupings, similarities and differences among the data. Each chapter will be written by an acknowledged international expert in that area. Each author will be given detailed instructions as to the intended audience, as well as expected breadth and depth of coverage of the material in the hopes that this will minimize the problem of uneven coverage of topics and chapters that often occurs in edited books. Although each of the types of evidence covered in the book use methods of analysis that lie outside chemistry, these will be mentioned only for completeness in passing. The emphasis will be on the use of chemical tools in evidence analysis. This book is designed to be either a text book for an advanced forensic chemistry course, or a treatise in forensic chemistry for the scientist who wants to learn the subject in some depth. It is not designed to be a survey of the current literature in the field or a reference manual.

Chess in the Fast Lane! Can anyone play a decent game of chess in one minute? Surprisingly, the answer is "Yes" as this unique book reveals. "Bullet" chess, where each player has one minute for the entire game, has attracted thousands of followers since it was popularized on the internet a decade ago. In this book the authors discuss the relationship between the position on the board and time on the clock, the techniques and dangers of "pre-moving," bullet openings, the importance of the initiative and consistent strategy, and how endings are different in bullet chess. The authors also explore the psychology of bullet chess and the most common causes of tactical oversights and blunders. The many examples illustrate the principles of bullet chess and how they may even apply to blitz chess and time scrambles in standard chess. Most of all, bullet chess is shown to be entertaining and addictive, and not at all as random as it first appears.

Key Benefit: Prelude to Programming provides readers with a language-independent framework for learning core programming concepts and effective design techniques. This approach gives readers the foundation they need to understand the logic behind program design and to establish effective programming skills. Key Topics: Core programming concepts, such as data types, control structures, data files and arrays and program design techniques, such as top-down modular design and proper program documentation and style. Also included are basic programming tools and algorithms which include data validation, defensive programming, calculating sums and averages, and searching and sorting lists. Market: This book is for readers who have no programming background and want to learn the fundamental skills of programming logic and design.

This book presents key aspects of organic synthesis – stereochemistry, functional group transformations, bond formation, synthesis planning, mechanisms, and spectroscopy – and a guide to literature searching in a reader-friendly manner. • Helps students understand the skills and basics they need to move from introductory to graduate organic chemistry classes • Balances synthetic and physical organic chemistry in a way accessible to students • Features extensive end-of-chapter problems • Updates include new examples and discussion of online resources now common for literature searches • Adds sections on protecting groups and green chemistry along with a rewritten chapter surveying organic spectroscopy

Financial Analytics with R sharpens readers' skills in time-series, forecasting, portfolio selection, covariance clustering, prediction, and derivative securities.

Fluency with physics fundamentals and problem-solving has a collateral effect on students by enhancing their analytical reasoning skills. In a sense, physics is to intellectual pursuits what strength training is to sports. Designed for a two-semester algebra-based course, Essential Physics provides a thorough understanding of the fundamentals of physics central to many fields. It omits material often found in much larger texts that cannot be covered in a year-long course and is not needed for non-physics majors. Instead, this text focuses on providing a solid understanding of basic physics and physical principles. While not delving into the more specialized areas of the field, the text thoroughly covers mechanics, electricity and magnetism, light, and modern physics. This book is appropriate for a course in which the goals are to give the students a grasp of introductory physics and enhance their analytical problem-solving skills. Each topic includes worked examples. Math is introduced as necessary, with some applications in biology, chemistry, and safety science also provided. If exposure to more applications, special topics, and concepts is desired, this book can be used as a problem-solving supplement to a more inclusive text.

This book presents a philosophical approach to probability and probabilistic thinking, considering the underpinnings of probabilistic reasoning and modeling, which effectively underlie everything in data science. The ultimate goal is to call into question many standard tenets and lay the philosophical and probabilistic groundwork and infrastructure for statistical modeling. It is the first book devoted to the philosophy of data aimed at working scientists and calls for a new consideration in the practice of probability and statistics to eliminate what has been referred to as the "Cult of Statistical Significance." The book explains the philosophy of these ideas and not the mathematics, though there are a handful of mathematical examples. The topics are logically laid out, starting with basic philosophy as related to probability, statistics, and science, and stepping through the key probabilistic ideas and concepts, and ending with statistical models. Its jargon-free approach asserts that standard methods, such as out-of-the-box regression, cannot help in discovering cause. This new way of looking at uncertainty ties together disparate fields — probability, physics, biology, the “soft” sciences, computer science — because each aims at discovering cause (of effects). It broadens the understanding beyond frequentist and Bayesian methods to propose a Third Way of modeling.

Published on behalf of The British Dietetic Association, Advanced Nutrition and Dietetics in Diabetes is an exploration of the evidence and practice of nutrition in diabetes, offering a global view of the lifestyle interventions for the prevention and management of diabetes, including management of complications and special population groups. With internationally recognised authors, this book applies the rigour of evidence-based medicine to important enduring topics in diabetes,

such as: public health efforts at diabetes prevention formulating nutritional guidelines for diabetes carbohydrates and the glycaemic index the management of diabetes in older people The authors draw on their research and practical experience to offer sound guidance on best practice, ensuring that interventions are both scientifically secure and effective. ABOUT THE SERIES Dietary recommendations need to be based on solid evidence, but where can you find this information? The British Dietetic Association and the publishers of the Manual of Dietetic Practice present an essential and authoritative reference series on the evidence base relating to advanced aspects of nutrition and diet in selected clinical specialties. Each book provides a comprehensive and critical review of key literature in its subject. Each covers established areas of understanding, current controversies and areas of future development and investigation, and is oriented around six key themes: Disease processes, including metabolism, physiology, and genetics Disease consequences, including morbidity, mortality, nutritional epidemiology and patient perspectives Nutritional consequences of diseases Nutritional assessment, drawing on anthropometric, biochemical, clinical, dietary, economic and social approaches Clinical investigation and management Nutritional and dietary management Trustworthy, international in scope, and accessible, Advanced Nutrition and Dietetics is a vital resource for a range of practitioners, researchers and educators in nutrition and dietetics, including dietitians, nutritionists, doctors and specialist nurses. Please note Due to recent developments in this area, Chapter 4.3 on Nutritional management of glycaemia in type 2 diabetes has been withdrawn from the publication, and all future reprints will be replaced by a new chapter. All ebook versions are already updated. The contributor retains copyright to this chapter whilst their name still appears associated to the chapter.

If you are a computer game enthusiast who has always wanted to know what it takes to build a playable game, or maybe you would like to expand your programming knowledge so that you can develop great computer games using a solid game engine and toolkit, then this book is for you.

Accessible to all students with a sound background in high school mathematics, A Concise Introduction to Pure Mathematics, Fourth Edition presents some of the most fundamental and beautiful ideas in pure mathematics. It covers not only standard material but also many interesting topics not usually encountered at this level, such as the theory of solving cubic equations; Euler’s formula for the numbers of corners, edges, and faces of a solid object and the five Platonic solids; the use of prime numbers to encode and decode secret information; the theory of how to compare the sizes of two infinite sets; and the rigorous theory of limits and continuous functions. New to the Fourth Edition Two new chapters that serve as an introduction to abstract algebra via the theory of groups, covering abstract reasoning as well as many examples and applications New material on inequalities, counting methods, the inclusion-exclusion principle, and Euler’s phi function Numerous new exercises, with solutions to the odd-numbered ones Through careful explanations and examples, this popular textbook illustrates the power and beauty of basic mathematical concepts in number theory, discrete mathematics, analysis, and abstract algebra. Written in a rigorous yet accessible style, it continues to provide a robust bridge between high school and higher-level mathematics, enabling students to study more advanced courses in abstract algebra and analysis.

This comprehensive text examines existing and emerging electrical drive technologies. The authors clearly define the most basic electrical drive concepts and go on to explain the most important details while maintaining a solid connection to the theory and design of the associated electrical machines. Also including links to a number of industrial applications, the authors take their investigation of electrical drives beyond theory to examine a number of practical aspects of electrical drive control and application. Key features: * Provides a comprehensive summary of all aspects of controlled-speed electrical drive technology including control and operation. * Handling of electrical drives is solidly linked to the theory and design of the associated electrical machines. Added insight into problems and functions are illustrated with clearly understandable figures. * Offers an understanding of the main phenomena associated with electrical machine drives. * Considers the problem of bearing currents and voltage stresses of an electrical drive. * Includes up-to-date theory and design guidelines, taking into account the most recent advances. This book’s rigorous coverage of theoretical principles and techniques makes for an excellent introduction to controlled-speed electrical drive technologies for Electrical Engineering MSc or PhD students studying electrical drives. It also serves as an excellent reference for practicing electrical engineers looking to carry out design, analyses, and development of controlled-speed electrical drives.

BEGINNING ALGEBRA: CONNECTING CONCEPTS THROUGH APPLICATIONS shows students how to apply traditional mathematical skills in real-world contexts. The emphasis on skill building and applications engages students as they master algebraic concepts, problem solving, and communication skills. Students learn how to solve problems generated from realistic applications, instead of learning techniques without conceptual understanding. The authors have developed several key ideas to make concepts real and vivid for students. First, they emphasize strong algebra skills. These skills support the applications and enhance student comprehension. Second, the authors integrate applications, drawing on realistic data to show students why they need to know and how to apply math. The applications help students develop the skills needed to explain the meaning of answers in the context of the application. Third, the authors develop key concepts as students progress through the course. For example, the distributive property is introduced in real numbers, covered when students are learning how to multiply a polynomial by a constant, and finally when students learn how to multiply a polynomial by a monomial. These concepts are reinforced through applications in the text. Last, the authors' approach prepares students for intermediate algebra by including an introduction to material such as functions and interval notation as well as the last chapter that covers linear and quadratic modeling. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.