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Signal Processing with Free Software - François Auger 2014-02-19

An ideal resource for students, industrial engineers, andresearchers, Signal Processing with Free Software PracticalExperiments presents practical experiments in signal processingusing free software. The text introduces elementary signals throughelementary waveform, signal storage files and elementary operationson signals and then presents the first tools to signal analysis such as temporal and frequency characteristics leading toTime-frequency analysis. Non-parametric spectral analysis is alsodiscussed as well as signal processing through sampling, resampling, quantification, and analog and digital filtering. Table of Contents: 1. Generation of Elementary Signals. Generation of Elementary Waveform. - Elementary Operationson the Signals. - Format of Signal Storage Files. 2. First tools of Signal Analysis. Measurement of Temporal and Frequency Characteristics of a Signal. Time-Frequency Analysis of a Signal. 3. Non-parametric Spectral Analysis. 4. Signal Processing. Sampling. - Resampling. - Quantification. - "Analog" Filtering. Digital Filtering

Securing the Perimeter - Michael Schwartz 2018

Leverage existing free open source software to build an identity and access management (IAM) platform that can serve your organization for the long term. With the emergence of open standards and open source software, it's now easier than ever to build and operate your own IAM stack. The most common culprit of the largest hacks has been bad personal identification. In terms of bang for your buck, effective access control is the best investment you can make. Financially, it's more valuable to prevent than to detect a security breach. That's why Identity and Access Management (IAM) is a critical component of an organization's security infrastructure. In the past, IAM software has been available only from large enterprise software vendors. Commercial IAM offerings are bundled as "suites" because IAM is not just one component. It's a number of components working together, including web, authentication, authorization, cryptographic, and persistence services. *Securing the Perimeter* documents a recipe to take advantage of open standards to build an enterprise-class IAM service using free open source software. This recipe can be adapted to meet the needs of both small and large organizations. While not a comprehensive guide for every application, this book provides the key concepts and patterns to help administrators and developers leverage a central security infrastructure. Cloud IAM service providers would have you believe that managing an IAM is too hard. Anything unfamiliar is hard, but with the right road map, it can be mastered. You may find SaaS identity solutions too rigid or too expensive. Or perhaps you don't like the idea of a third party holding the credentials of your users-the keys to your kingdom. Open source IAM provides an alternative. Take control of your IAM infrastructure if digital services are key to your organization's success. What You'll Learn: Understand why you should deploy a centralized authentication and policy management infrastructure Use the SAML or Open ID Standards for web or single sign-on, and OAuth for API Access Management Synchronize data from existing identity repositories such as Active Directory Deploy two-factor authentication services.

The Nuclear Environmentalist - Juan José Gomez Cadenas 2012-05-16

This book explains how society will face an energy crisis in the coming decades owing to increasing scarcity of fossil fuels and climate change impacts. It carefully explores this coming crisis and concisely examines all of the major technologies related to energy production (fossil fuels, renewables, and nuclear) and their impacts on our society and environment. The author argues that it is wrong to pit alternatives to fossil fuels against each other and proposes that nuclear energy, although by no means free of

problems, can be a viable source of reliable and carbon-free electricity. He concludes by calling for a diversified and rational mix of electricity generation in order to mitigate the effects of the energy crisis. Throughout, the book is spiced with science, history, and anecdotes in a way that ensures rewarding reading without loss of rigor.

The Essentials of Modern Software Engineering - Ivar Jacobson 2019-07-19

The first course in software engineering is the most critical. Education must start from an understanding of the heart of software development, from familiar ground that is common to all software development endeavors. This book is an in-depth introduction to software engineering that uses a systematic, universal kernel to teach the essential elements of all software engineering methods. This kernel, Essence, is a vocabulary for defining methods and practices. Essence was envisioned and originally created by Ivar Jacobson and his colleagues, developed by Software Engineering Method and Theory (SEMAT) and approved by The Object Management Group (OMG) as a standard in 2014. Essence is a practice-independent framework for thinking and reasoning about the practices we have and the practices we need. Essence establishes a shared and standard understanding of what is at the heart of software development. Essence is agnostic to any particular method, lifecycle independent, programming language independent, concise, scalable, extensible, and formally specified. Essence frees the practices from their method prisons. The first part of the book describes Essence, the essential elements to work with, the essential things to do and the essential competencies you need when developing software. The other three parts describe more and more advanced use cases of Essence. Using real but manageable examples, it covers the fundamentals of Essence and the innovative use of serious games to support software engineering. It also explains how current practices such as user stories, use cases, Scrum, and micro-services can be described using Essence, and illustrates how their activities can be represented using the Essence notions of cards and checklists. The fourth part of the book offers a vision how Essence can be scaled to support large, complex systems engineering. Essence is supported by an ecosystem developed and maintained by a community of experienced people worldwide. From this ecosystem, professors and students can select what they need and create their own way of working, thus learning how to create ONE way of working that matches the particular situation and needs.

GPS - Guochang Xu 2003-06-24

This reference and handbook describes static, kinematic and dynamic Global Positioning System (GPS) theory, algorithms and applications. It is primarily based on source-code descriptions of the KSGSoft program developed by the author at the GFZ in Potsdam. The theory and algorithms are revised and extended for a new development of a multiple functional GPS software. New concepts such as the unified GPS data processing method and ambiguity-ionospheric algorithm, as well as general ambiguity search criteria, are reported for the first time. Mathematically rigorous, the book begins with the basics of coordinate and time systems and satellite orbits, as well as GPS observables, and deals with topics such as physical influences, observation equations, adjustment and filtering, ambiguity resolution, data processing, kinematic positioning, and the determination of perturbed orbits.

Statistics and Data Analysis for Financial Engineering - David Ruppert 2015-04-21

The new edition of this influential textbook, geared towards graduate or advanced undergraduate students, teaches the statistics necessary for financial engineering. In doing so, it

illustrates concepts using financial markets and economic data, R Labs with real-data exercises, and graphical and analytic methods for modeling and diagnosing modeling errors. These methods are critical because financial engineers now have access to enormous quantities of data. To make use of this data, the powerful methods in this book for working with quantitative information, particularly about volatility and risks, are essential. Strengths of this fully-revised edition include major additions to the R code and the advanced topics covered. Individual chapters cover, among other topics, multivariate distributions, copulas, Bayesian computations, risk management, and cointegration. Suggested prerequisites are basic knowledge of statistics and probability, matrices and linear algebra, and calculus. There is an appendix on probability, statistics and linear algebra. Practicing financial engineers will also find this book of interest.

The Finite Element Method in Heat Transfer and Fluid Dynamics - J. N. Reddy 1994-06-27

Designed for those interested in using finite element methods in the study of fluid mechanics and heat transfer, *The Finite Element Method in Heat Transfer and Fluid Dynamics* presents this useful methodology tailored for a limited but significant class of problems dealing with heat conduction, incompressible viscous flows, and convection heat transfer. The authors' approach consists of a series of incremental steps of increasing complexity. The text is divided into 8 chapters. Chapter 1 describes in detail the continuum boundary value problems that form the central focus of the book. Chapters 2 and 3 introduce and extend the finite element method by application to a simplified, two- and three-dimensional heat conduction problems. Chapters 4 and 5 describe isothermal viscous fluid mechanics formulations and the solution of nonlinear equations developed from the flow problem. Chapter 6 covers inelastic non-Newtonian flows and free surface problems. Chapter 7 surveys the complex topic of viscoelastic flow simulation, while Chapter 8 discusses several advanced topics, including turbulence modeling. Each chapter includes example problems ranging from simple benchmarks to practical engineering solutions. In *The Finite Element Method in Heat Transfer and Fluid Dynamics*, readers will find a pragmatic treatment that views numerical computation as a means to an end and does not dwell on theory or proof. Mastering its contents brings a firm understanding of the basic methodology, the competence to use existing simulation software, and the ability to develop some simpler, special purpose computer codes.

A Unified Computational Fluid Dynamics Framework from Rarefied to Continuum Regimes - Kun Xu 2021-06-10

This Element presents a unified computational fluid dynamics framework from rarefied to continuum regimes. The framework is based on the direct modelling of flow physics in a discretized space. The mesh size and time step are used as modelling scales in the construction of discretized governing equations. With the variation-of-cell Knudsen number, continuous modelling equations in different regimes have been obtained, and the Boltzmann and Navier-Stokes equations become two limiting equations in the kinetic and hydrodynamic scales. The unified algorithms include the discrete velocity method (DVM)-based unified gas-kinetic scheme (UGKS), the particlebased unified gas-kinetic particle method (UGKP), and the wave and particle-based unified gas-kinetic wave-particle method (UGKWP). The UGKWP is a multi-scale method with the particle for non-equilibrium transport and wave for equilibrium evolution. The particle dynamics in the rarefied regime and the hydrodynamic flow solver in the continuum regime have been unified according to the cell's Knudsen number.

The Physics of Traffic - Boris S. Kerner 2012-12-06

The core of this book presents a theory developed by the author to combine the recent insight into empirical data with mathematical models in freeway traffic research based on dynamical non-linear processes.

Money For Content and Your Clicks For Free - J. D. Frazer 2006-02-20

Want to make money from your creativity? Here's how If you're a blogger or podcaster, an artist or musician, or someone who creates any other type of online content and dream of earning income from your creative efforts, you have endless options on the Internet. But to seize them, you must become part

businessperson--a creative entrepreneur. If that thought intimidates you, you're not alone. JD Frazer has been there, and he shares with you everything you must know about syndication, advertising, branding, merchandising, copyright protection, ethical considerations, how to attract consumers, and more. If you want to earn a living from what you create, here's what you need to do:

- * Make wise decisions that protect your intellectual property and your interests
- * Approach the subject of paying for content without alienating your audience
- * Understand the realities of self-syndication
- * Weigh the advantages and disadvantages of membership features on your Web site
- * Learn how branding and merchandising apply to your art
- * Be prepared for fame as well as anonymity, and the hazards of both
- * Recognize the ethical balance that exists between creator and consumer
- * Explore online resources that assist the creative entrepreneur

Visit our Web site at www.wiley.com/compbooks

Free-Surface Flow - Nikolaos D. Katopodes 2018-08-21

Free Surface Flow: Environmental Fluid Mechanics introduces a wide range of environmental fluid flows, such as water waves, land runoff, channel flow, and effluent discharge. The book provides systematic analysis tools and basic skills for study fluid mechanics in natural and constructed environmental flows. As the prediction of changes in free surfaces in rivers, lakes, estuaries and in the ocean directly affects the design of structures that control surface waters, and because planning for the allocation of fresh-water resources in a sustainable manner is an essential goal, this book provides the necessary background and research. Helps users determine the transfer of solute mass through the air-water interface Presents tactics on the impact of free shear flow in the environment and how to quantify mixing mechanisms in turbulent jets and wakes Gives users tactics to predict the fate and transport of contaminants in stratified lakes and estuaries

Software Components with Ada - Grady Booch 1987

Cold Inflow-Free Solar Chimney - Md. Mizanur Rahman 2021-05-28

This book highlights the design of a new type of solar chimney that has lower height and bigger diameter, and discusses its applications. The bigger diameter chimneys are introduced showing cold inflow phenomena that significantly reduced the performance of solar chimney. The cold inflow-free operation of solar chimneys restores the draft losses and enhances the performance of the solar chimneys. Numerical and experimental investigation results will be presented to highlight the performance of cold inflow-free solar chimney performance. In addition, this book covers the important basic design parameters that affect the design of solar chimney for different applications, mainly, solar chimney-assisted ventilation for passive cooling and power generation system.

[Pro Linux System Administration](#) - Dennis Matotek 2017-03-14

Implement a SOHO or SMB Linux infrastructure to expand your business and associated IT capabilities. Backed by the expertise and experienced guidance of the authors, this book provides everything you need to move your business forward. *Pro Linux System Administration* makes it easy for small- to medium-sized businesses to enter the world of zero-cost software running on Linux and covers all the distros you might want to use, including Red Hat, Ubuntu, Debian, and CentOS. *Pro Linux System Administration* takes a layered, component-based approach to open source business systems, while training system administrators as the builders of business infrastructure. Completely updated for this second edition, Dennis Matotek takes you through an infrastructure-as-code approach, seamlessly taking you through steps along the journey of Linux administration with all you need to master complex systems. This edition now includes Jenkins, Ansible, Logstash and more. What You'll Learn:

- Understand Linux architecture Build, back up, and recover Linux servers
- Create basic networks and network services with Linux
- Build and implement Linux infrastructure and services including mail, web, databases, and file and print
- Implement Linux security
- Resolve Linux performance and capacity planning issues
- Who This Book Is For: Small to medium-sized business owners looking to run their own IT, system administrators considering migrating to Linux, and IT systems integrators looking for an extensible Linux infrastructure management approach.

Grounding and Shielding - Ralph Morrison 2007-03-16

The fifth edition of *Grounding and Shielding* has been revised throughout. Material has been added on transmission lines, radiation and printed circuit design, all of which are of great current interest because of the smaller dimensions of electronic devices.

Water Waves and Ship Hydrodynamics - A.J. Hermans 2010-10-21

In this book an introduction is given to aspects of water waves that play a role in ship hydrodynamics and offshore engineering. At first the equations and linearized boundary conditions are derived describing the non-viscous free surface water waves, with special attention to the combination of steady and non-steady flow fields. Then some simple kinds of free wave solutions are derived, such as plane waves and cylindrical waves. For several situations, steady and unsteady, the source singularity function is derived. These functions play a role in numerical codes used to describe the motion of ships and offshore structures. These codes are mostly based on a boundary integral formulation; therefore we give an introduction to these methods. It is shown how first order ship motions can be determined. In offshore engineering the second order wave drift motions play an important role. An introduction to this phenomenon is given and the effects which have to be taken into account are explained by means of a simple example where we can determine nearly all the aspects analytically. An interesting example that is worked out is the motion of very large floating flexible platforms with finite draft. Finally an introduction to the theory of shallow water non-linear dispersive waves is presented, and shallow water ship hydrodynamics, that plays a role in coastal areas and channels is treated. Here attention is paid to the interaction between passing ships in restricted water. In the appendix a short introduction to some of the mathematical tools is given.

Free-Space Optics - Olivier Bouchet 2010-01-05

Free space optics is a telecommunications technique which is already being used for everyday exchange of information and has many advantages over other techniques (bandwidth, low cost, mobility of the equipment, security, etc.); within the next decade, it is likely to become an integral and essential part of data-processing architectures and telecommunications. A history of wireless optical telecommunications is given, together with a recapitulation of the application of the principles of electromagnetism to free-space optics. Coverage is also given to the transmitters and receivers of optical beams, which are the basis of any optical communication system. These devices were responsible for the first truly significant advances in the performance of these systems. Special attention is given to the problems associated with the propagation of photons, both in the presence and absence of obstacles, since these are key issues in gaining an understanding of future telecommunication systems based on wireless optics. Finally, the authors consider standards, as well as safety and confidentiality issues.

Physics I: 501 Practice Problems For Dummies (+ Free Online Practice) - The Experts at Dummies 2022-05-10

Overcome your study inertia and polish your knowledge of physics. *Physics I: 501 Practice Problems For Dummies* gives you 501 opportunities to practice solving problems from all the major topics covered in your Physics I class—in the book and online! Get extra help with tricky subjects, solidify what you've already learned, and get in-depth walk-throughs for every problem with this useful book. These practice problems and detailed answer explanations will help you succeed in this tough-but-required class, no matter what your skill level. Thanks to *Dummies*, you have a resource to help you put key concepts into practice. Work through practice problems on all Physics I topics covered in school classes. Step through detailed solutions to build your understanding. Access practice questions online to study anywhere, any time. Improve your grade and up your study game with practice, practice, practice. The material presented in *Physics I: 501 Practice Problems For Dummies* is an excellent resource for students, as well as parents and tutors looking to help supplement Physics I instruction. *Physics I: 501 Practice Problems For Dummies* (9781119883715) was previously published as *Physics I Practice Problems For Dummies* (9781118853153). While this version features a new *Dummies* cover and design, the content is

the same as the prior release and should not be considered a new or updated product.

Energy Storage - Robert Huggins 2015-11-13

Energy Storage explains the underlying scientific and engineering fundamentals of all major energy storage methods. These include the storage of energy as heat, in phase transitions and reversible chemical reactions, and in organic fuels and hydrogen, as well as in mechanical, electrostatic and magnetic systems. Updated coverage of electrochemical storage systems considers exciting developments in materials and methods for applications such as rapid short-term storage in hybrid and intermittent energy generation systems, and battery optimization for increasingly prevalent EV and stop-start automotive technologies. This nuanced coverage of cutting-edge advances is unique in that it does not require prior knowledge of electrochemistry. Traditional and emerging battery systems are explained, including lithium, flow and liquid batteries. *Energy Storage* provides a comprehensive overview of the concepts, principles and practice of energy storage that is useful to both students and professionals.

Assembly and Reliability of Lead-Free Solder Joints - John H. Lau 2020-05-29

This book focuses on the assembly and reliability of lead-free solder joints. Both the principles and engineering practice are addressed, with more weight placed on the latter. This is achieved by providing in-depth studies on a number of major topics such as solder joints in conventional and advanced packaging components, commonly used lead-free materials, soldering processes, advanced specialty flux designs, characterization of lead-free solder joints, reliability testing and data analyses, design for reliability, and failure analyses for lead-free solder joints. Uniquely, the content not only addresses electronic manufacturing services (EMS) on the second-level interconnects, but also packaging assembly on the first-level interconnects and the semiconductor back-end on the 3D IC integration interconnects. Thus, the book offers an indispensable resource for the complete food chain of electronics products.

Quantum Mechanics for Applied Physics and Engineering - A. T. Fromhold 1981

Quantum Mechanics For Applied Physics And Engineering ...

Mitigating Tin Whisker Risks - Takahiko Kato 2016-04-28

Discusses the growth mechanisms of tin whiskers and the effective mitigation strategies necessary to reduce whisker growth risks. This book covers key tin whisker topics, ranging from fundamental science to practical mitigation strategies. The text begins with a review of the characteristic properties of local microstructures around whisker and hillock grains to identify why these particular grains and locations become predisposed to forming whiskers and hillocks. The book discusses the basic properties of tin-based alloy finishes and the effects of various alloying elements on whisker formation, with a focus on potential mechanisms for whisker suppression or enhancement for each element. Tin whisker risk mitigation strategies for each tier of the supply chain for high reliability electronic systems are also described. Discusses whisker formation factors including surface grain geometry, crystallographic orientation-dependent surface grain boundary structure, and the localization of elastic strain/strain energy density distribution. Examines how whiskers and hillocks evolve in time through real-time studies of whisker growth with the scanning electron microscope/focused ion beam/milling (SEM/FIB). Covers characterization methods of tin and tin-based alloy finishes such as transmission electron microscopy (TEM), scanning electron microscopy (SEM), and electron backscatter diffraction (EBSD). Reviews theories of mechanically-induced tin whiskers with case studies using pure tin and other lead-free finishes shown to evaluate the pressure-induced tin whiskers. *Mitigating Tin Whisker Risks: Theory and Practice* is intended for the broader electronic packaging and manufacturing community including: manufacturing engineers, packaging development engineers, as well as engineers and researchers in high reliability industries.

The Digital Consumer Technology Handbook - Amit Dhir 2004-04-30

The consumer electronics market has never been as awash with new consumer products as it has over the last couple of years. The devices that have emerged on the scene have led to major

changes in the way consumers listen to music, access the Internet, communicate, watch videos, play games, take photos, operate their automobiles—even live. Digital electronics has led to these leaps in product development, enabling easier exchange of media, cheaper and more reliable products, and convenient services. This handbook is a much-needed, comprehensive engineering guide to the dynamic world of today's digital consumer electronics. It provides complete details on key enabling technologies, standards, delivery and reception systems, products, appliances and networking systems. Each chapter follows a logical progression from a general overview of each device, to market dynamics, to the core technologies and components that make up that particular product. The book thoroughly covers all of the key digital consumer product categories: digital TV, digital audio, mobile communications devices, gaming consoles, DVD players, PCs and peripherals, display devices, digital imaging devices, web terminals and pads, PDAs and other handhelds, screenphones/videophones, telematics devices, eBooks and readers, and many other current and future products. To receive a FREE daily newsletter on displays and consumer electronics, go to: <http://www.displaydaily.com/> · Surveys crucial engineering information for every digital consumer product category, including cell phones, digital TVs, digital cameras, PDAs and many more—the only reference available to do so · Has extremely broad market appeal to embedded systems professionals, including engineers, programmers, engineering managers, marketing and sales personnel—1,000,000+ potential readers · Helps engineers and managers make the correct design decisions based on real-world data

Free-Space Laser Communications - Arun K. Majumdar 2010-05-05
This is a comprehensive tutorial on the emerging technology of free-space laser communications (FSLC). The book offers an all-inclusive source of information on the basics of FSLC, and a review of state-of-the-art technologies. Coverage includes atmospheric effects for laser propagation and FSLC systems performance and design. Free-Space Laser Communications is a valuable resource for engineers, scientists and students interested in laser communication systems designed for the atmospheric optical channel.

Quantitative Finance with Python - Chris Kelliher 2022
"Quantitative Finance with Python: A Practical Guide to Investment Management, Trading and Financial Engineering bridges the gap between the theory of mathematical finance and the practical applications of these concepts for derivative pricing and portfolio management. The book provides students with a very hands-on, rigorous introduction to foundational topics in quant finance, such as options pricing, portfolio optimization and machine learning. Simultaneously, the reader benefits from a strong emphasis on the practical applications of these concepts for institutional investors. Features. Useful as both a teaching resource and as a practical tool for professional investors. Ideal textbook for first year graduate students in quantitative finance programs, such as those in master's programs in Mathematical Finance, Quant Finance or Financial Engineering. Includes a perspective on the future of quant finance techniques, and in particular covers some introductory concepts of Machine Learning. Free-to-access repository with Python code available at www.routledge.com/9781032014432"--

Engineering Digital Design - Richard F. Tinker 2000-01-18
Engineering Digital Design, Second Edition provides the most extensive coverage of any available textbook in digital logic and design. The new REVISED Second Edition published in September of 2002 provides 5 productivity tools free on the accompanying CD ROM. This software is also included on the Instructor's Manual CD ROM and complete instructions accompany each software program. In the REVISED Second Edition modern notation combines with state-of-the-art treatment of the most important subjects in digital design to provide the student with the background needed to enter industry or graduate study at a competitive level. Combinatorial logic design and synchronous and asynchronous sequential machine design methods are given equal weight, and new ideas and design approaches are explored. The productivity tools provided on the accompanying CD are outlined below: [1] EXL-Sim2002 logic simulator: EXL-Sim2002 is a full-featured, interactive, schematic-capture and simulation program

that is ideally suited for use with the text at either the entry or advanced-level of logic design. Its many features include drag-and-drop capability, rubber banding, mixed logic and positive logic simulations, macro generation, individual and global (or randomized) delay assignments, connection features that eliminate the need for wire connections, schematic page sizing and zooming, waveform zooming and scrolling, a variety of printout capabilities, and a host of other useful features. [2] BOOZER logic minimizer: BOOZER is a software minimization tool that is recommended for use with the text. It accepts entered variable (EV) or canonical (1's and 0's) data from K-maps or truth tables, with or without don't cares, and returns an optimal or near optimal single or multi-output solution. It can handle up to 12 functions Boolean functions and as many inputs when used on modern computers. [3] ESPRESSO II logic minimizer: ESPRESSO II is another software minimization tool widely used in schools and industry. It supports advanced heuristic algorithms for minimization of two-level, multi-output Boolean functions but does not accept entered variables. It is also readily available from the University of California, Berkeley, 1986 VLSI Tools Distribution. [4] ADAM design software: ADAM (for Automated Design of Asynchronous Machines) is a very powerful productivity tool that permits the automated design of very complex asynchronous state machines, all free of timing defects. The input files are state tables for the desired state machines. The output files are given in the Berkeley format appropriate for directly programming PLAs. ADAM also allows the designer to design synchronous state machines, timing-defect-free. The options include the lumped path delay (LPD) model or NESTED CELL model for asynchronous FSM designs, and the use of D FLIP-FLOPs for synchronous FSM designs. The background for the use of ADAM is covered in Chapters 11, 14 and 16 of the REVISED 2nd Edition. [5] A-OPS design software: A-OPS (for Asynchronous One-hot Programmable Sequencers) is another very powerful productivity tool that permits the design of asynchronous and synchronous state machines by using a programmable sequencer kernel. This software generates a PLA or PAL output file (in Berkeley format) or the VHDL code for the automated timing-defect-free designs of the following: (a) Any 1-Hot programmable sequencer up to 10 states. (b) The 1-Hot design of multiple asynchronous or synchronous state machines driven by either PLDs or RAM. The input file is that of a state table for the desired state machine. This software can be used to design systems with the capability of instantly switching between several radically different controllers on a time-shared basis. The background for the use of A-OPS is covered in Chapters 13, 14 and 16 of the REVISED 2nd Edition.

Getting StartED with Google Apps - Paul Darbyshire 2012-02-03
How would you like to share your calendar, access your e-mail, or create and share documents, all online from your smartphone/mobile device, netbook, or desktop? If you answered yes, then you should know that the best of all these online applications and services are being offered for free, from one of the Internet's biggest names, Google. These apps are in an online suite of productivity and fun applications called Google Apps. Getting StartED with Google Apps gets you started collaborating and creating with Google's online suite of applications on the Chrome operating system—analogue to using Microsoft Office on Windows. The differences are that Google Apps and Chrome are mostly free and run entirely on the Web. With this book, you get clear and easy-to-use instructions for getting up and running with basic Google Apps like Gmail, Google Voice, and more. Moreover, you get detailed visuals and step-by-step explanations on the more sophisticated Google apps like Google Docs, Spreadsheets, Presentations, SketchUp, and more. So get going and have some fun while you're at it.

Spark - Manoush Zomorodi 2020-03-05
Crammed with practical exercises for anyone who wants to reclaim the power of spacing out' - Gretchen Rubin, author of #1 New York Times Bestseller The Happiness Project It's time to move 'doing nothing' to the top of your to-do list Have you ever noticed how you have your best ideas when doing the dishes or staring out the window? It's because when your body goes on autopilot, your brain gets busy connecting ideas and solving problems. However in the modern world it often feels as though we have completely removed boredom from our lives; we are addicted to our phones,

we reply to our emails twenty-four hours a day, tweet as we watch TV, watch TV as we commute, check Facebook as we walk and Instagram while we eat. Constant stimulation has become our default mode. In this easy to follow, practical book, award-winning journalist Manoush Zomorodi explores the connection between boredom and original thinking, and will show you how to ditch your screens and start embracing time spent doing nothing. Spark will help you unlock the way to becoming your most productive and creative self.'Full of easy steps to make each day more effective' Charles Duhigg, author of *The Power of Habit**Spark was previously published as *Bored and Brilliant*.*

Free Space Optical Communication - Hemani Kaushal 2017-01-06
This book provides an in-depth understanding of free space optical (FSO) communication with a particular emphasis on optical beam propagation through atmospheric turbulence. The book is structured in such a way that it provides a basic framework for the beginners and also gives a concise description from a designer's perspective. The book provides an exposure to FSO technology, fundamental limitations, design methodologies, system trade-offs, acquisition, tracking and pointing (ATP) techniques and link-feasibility analysis. The contents of this book will be of interest to professionals and researchers alike. The book may also be used as a textbook for engineering coursework and professional training.

Network Science - Ted G. Lewis, PhD 2011-09-20

A comprehensive look at the emerging science of networks
Network science helps you design faster, more resilient communication networks; revise infrastructure systems such as electrical power grids, telecommunications networks, and airline routes; model market dynamics; understand synchronization in biological systems; and analyze social interactions among people. This is the first book to take a comprehensive look at this emerging science. It examines the various kinds of networks (regular, random, small-world, influence, scale-free, and social) and applies network processes and behaviors to emergence, epidemics, synchrony, and risk. The book's uniqueness lies in its integration of concepts across computer science, biology, physics, social network analysis, economics, and marketing. The book is divided into easy-to-understand topical chapters and the presentation is augmented with clear illustrations, problems and answers, examples, applications, tutorials, and a discussion of related Java software. Chapters cover: Origins Graphs Regular Networks Random Networks Small-World Networks Scale-Free Networks Emergence Epidemics Synchrony Influence Networks Vulnerability Net Gain Biology This book offers a new understanding and interpretation of the field of network science. It is an indispensable resource for researchers, professionals, and technicians in engineering, computing, and biology. It also serves as a valuable textbook for advanced undergraduate and graduate courses in related fields of study.

Mindful Universe - Henry P. Stapp 2007-07-20

The classical mechanistic idea of nature that prevailed during the eighteenth and nineteenth centuries was essentially mindless: the physically described aspects of nature were asserted to be completely determined by prior physically described aspects alone, with conscious experiences entering only passively. In the last century these classical concepts were found inadequate. In the new quantum mechanics theory, conscious experiences enter into the dynamics in specified ways not fixed by physically described aspects alone.

Theories and Applications of Plate Analysis - Rudolph Szilard 2004-01-02

This book by a renowned structural engineer offers comprehensive coverage of both static and dynamic analysis of plate behavior, including classical, numerical, and engineering solutions. It contains more than 100 worked examples showing step by step how the various types of analysis are performed.

Deploying Identity and Access Management with Free Open Source Software - Michael Schwartz 2018-06-02

Learn to leverage existing free open source software to build an identity and access management (IAM) platform that can serve your organization for the long term. With the emergence of open standards and open source software, it's now easier than ever to build and operate your own IAM stack The most common culprit of the largest hacks has been bad personal identification. In terms of bang for your buck, effective access control is the best investment

you can make: financially, it's more valuable to prevent than to detect a security breach. That's why Identity and Access Management (IAM) is a critical component of an organization's security infrastructure. In the past, IAM software has been available only from large enterprise software vendors. Commercial IAM offerings are bundled as "suites" because IAM is not just one component: It's a number of components working together, including web, authentication, authorization, and cryptographic and persistence services. Deploying Identity and Access Management with Free Open Source Software documents a recipe to take advantage of open standards to build an enterprise-class IAM service using free open source software. This recipe can be adapted to meet the needs of both small and large organizations. While not a comprehensive guide for every application, this book provides the key concepts and patterns to help administrators and developers leverage a central security infrastructure. Cloud IAM service providers would have you believe that managing an IAM is too hard. Anything unfamiliar is hard, but with the right road map, it can be mastered. You may find SaaS identity solutions too rigid or too expensive. Or perhaps you don't like the idea of a third party holding the credentials of your users—the keys to your kingdom. Open source IAM provides an alternative. Take control of your IAM infrastructure if digital services are key to your organization's success. What You'll Learn Why to deploy a centralized authentication and policy management infrastructure Use: SAML for single sign-on, OpenID Connect for web and mobile single sign-on, and OAuth2 for API Access Management Synchronize data from existing identity repositories such as Active Directory Deploy two-factor authentication services Who This Book Is For Security architects (CISO, CSO), system engineers/administrators, and software developers

Secure Your Network for Free - Eric Seagren 2011-04-18

This is the only book to clearly demonstrate how to get big dollar security for your network using freely available tools. This is a must have book for any company or person with a limited budget. Network security is in a constant struggle for budget to get things done. Upper management wants thing to be secure but doesn't want to pay for it. With this book as a guide, everyone can get what they want. The examples and information will be of immense value to every small business. It will explain security principles and then demonstrate how to achieve them using only freely available software. Teachers you how to implement best of breed security using tools for free Ideal for anyone recommending and implementing new technologies within the company

Microwave Engineering - Gerard Barue 2008-07-28

Everything readers need to implement and support a wireless point-to-point communications environment In order to cope with the tremendous explosion of the telecommunications market, the field of wireless communications has greatly expanded in the past fifty years, especially in the domains of microwave radio systems including line-of-sight, satellites, and tropospheric-scatter. Now, Microwave Engineering: Land & Space Radio- communications answers the growing worldwide demand for an authoritative book on this important and emerging subject area. In five succinct chapters, the book introduces students and practicing engineers to the main propagation phenomena that are encountered and that must be considered in the design and planning for any given system type and frequency of operation: Electromagnetic wave propagation—An introduction to the fundamental theory of radiation and propagation of electromagnetic waves, polarization, antenna properties, free space attenuation, atmospheric refractivity, diffraction, reflection, multipath and scattering mechanisms, hydrometeor effects, and probability distributions Principles of digital communication systems—Modulation techniques, signal processing, error probability, spectral characteristics, spectrum efficiency, thermal noise, intermodulation, jamming, and interference Microwave line-of-sight systems—Path profile, flat fading and frequency-selective fading, interferometric method for space and frequency diversity techniques, International Standards and ITU Recommendations, optimization of the frequency-plan resource, link budget, quality, reliability, and availability Microwave transhorizon systems—Design of beyond-the-horizon communication systems, properties of scattering and diffraction modes, multipath statistical relations, long-term and short-term field strength variations,

quality of service, optimization of antenna alignment, and experimental analysis of various diversity and combining methods
Satellite communications—Design of satellite communications systems, orbital parameters, Earth-satellite geometry, uplink and downlink budgets for both space and Earth segments, and total system noise temperature
Microwave Engineering: Land & Space Radiocommunications is suitable for engineers involved in wireless telecommunications, as well as for students and members of various seminars and workshops.

Grounding and Shielding Techniques - Ralph Morrison 1998

A step-by-step guide to solving noise and interference problems in the digital age The rapid growth of digital technology over the past decade has brought the analog world into direct contact with high-speed operations and electromagnetic processes--and created a host of new problems for designers. This new twist requires different approaches to issues of noise and interference in digital processing, high-speed communication, mass data storage, and high-frequency applications. *Grounding and Shielding Techniques, Fourth Edition* is entirely rewritten to reflect these new challenges. This highly effective tool for the management of interference problems in electronic equipment treats the fundamentals of electrostatics as they relate to electromagnetic phenomena. Specifically, this volume deals with the new interference problems created when analog designs are buried in the middle of hardware that must meet radiation and susceptibility standards. It features:
* Effective techniques for handling noise problems in a variety of circumstances
* Step-by-step instructions for building noise-free instrument systems
* Strategies for reducing or eliminating noise in interconnecting systems
* Expanded discussion of multishielded transformers
* An overview of current trends to limit the use of transformers
* Real-world examples of factors influencing electronic noise
* Simplified, practical explanations of the physics of fields
* Dozens of illustrations and a clear, readable text.
Grounding and Shielding Techniques, Fourth Edition is a state-of-the-art problem-solving guide for electronic design engineers and technicians. It is also an extremely useful text for short courses on electronic noise.

A Theory of Objects - Martin Abadi 1998-04-23

By developing object calculi in which objects are treated as primitives, the authors are able to explain both the semantics of objects and their typing rules, and also demonstrate how to develop all of the most important concepts of object-oriented programming languages: self, dynamic dispatch, classes, inheritance, protected and private methods, prototyping, subtyping, covariance and contravariance, and method specialization. An innovative and important approach to the subject for researchers and graduates.

Stress-Free Money: Overcome These Seven Obstacles to Find Financial Freedom - Chad Willardson 2019-12-31

Every day you're bombarded by ideas that could derail your financial future. Bad advice, differing expert opinions, and sales pitches are everywhere. You're faced with important money decisions that could either be very costly or really pay off in the long run. Whether you personally have \$100,000 or \$100 million, you feel the burden and stress of making the best moves for your future despite a lot of uncertainty. How do you decide what to do with your money? Where do you turn for financial advice? What if

you've been misled? In *Stress-Free Money*, Chad shows you how to overcome the seven obstacles standing between you and financial freedom. He exposes the risks, biases, and major mistakes that keep so many people from reaching their goals. Financial security and peace of mind are within reach, but most of us don't know where to start. The insights and stories in *Stress-Free Money* will give you confidence and guidance toward a life where you spend less time worrying about money and more time doing everything else.

FEM for Springs - Masayoshi Shimoseki 2013-03-09

The Japanese original edition of "FEM for Springs" was published in 1997, to commemorate the 50th anniversary of Japan Society for Spring Research (JSSR). While there have been many books published about Finite Element Method (FEM), this book was among the first to address the application of FEM to spring design. When asked about springs, one might imagine a mere shape of helical coil. However, there are many more varieties of shapes and functions in the application of springs. Consequently, some are very difficult to calculate by design formula. FEM gives the solutions to those advanced engineering cases. Nowadays, it is strongly desired to have a design method for springs as a common base from a global point of view. Under these circumstances, JSSR planned to publish an English version of "FEM for Springs". By improving the contents and adding many examples, this book, *FEM for Springs*, has been brought to completion. It is a truly significant event. I am confident that this book is suitable for engineers in worldwide industrial sectors and for college students as well.

Building a Web Site For Dummies - David A. Crowder 2007-09-10

Whether you're in the preliminary stages of planning a site or you're looking to improve the look of an existing site, this reference book covers it all. Now updated with the latest site tools, design techniques, and commerce options, this new edition of the bestseller offers a solid framework for building a Web site from scratch. Packed with all the essentials to help make your site the best it can be, this resource goes beyond just basic design and page building to show you how to incorporate both of those elements into a successful site. Veteran author David Crowder spills the secrets to planning and creating an effective site from the ground up. You'll decipher ways to transform a bunch of seemingly random web pages into a coherent web site and you'll discover myriad ways to make your site look and sound amazing. This updated third edition features content on designing with CSS, using the latest version of Dreamweaver, and applying Web analytics and promotion techniques. In addition, the book covers topics such as: Keeping a site fresh and exciting Designing a look that appeals to your intended audience Determining your Web page structure Incorporating color, images, graphics, music, and video Merging CSS and HTML Planning usable navigation Providing guestbooks and message boards Designing for e-commerce Getting set up with PayPal, Google Checkout, E-cash, etc. The accompanying CD-ROM provides trial versions of software that is used in the book as well as sample templates and graphics for Web building. Once you start referring to *Building a Web Site For Dummies, 3rd Edition*, you'll wonder how you ever existed without this invaluable information! Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.