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[Principles of Oral and Maxillofacial Surgery](#) Mar 15 2021 Since the first edition was published over thirty years ago, this book has become the established introductory textbook for dental students, valued for its accessible, reader-friendly style and absence of superfluous detail. The fourth edition was published in 1991. The new edition has been updated to reflect advances in the specialty, including implants, anxiety management and the management of traumatic injuries, tumours and facial deformities.

[Power System Protection and Switchgear](#) Feb 23 2022

[The Wall Street Journal](#) Apr 15 2021

[Thermal-Hydraulics of Water Cooled Nuclear Reactors](#) Apr 27 2022 [Thermal Hydraulics of Water-Cooled Nuclear Reactors](#) reviews flow and heat transfer phenomena in nuclear systems and examines the critical contribution of this analysis to nuclear technology development. With a strong focus on system thermal hydraulics (SYS TH), the book provides a detailed, yet approachable, presentation of current approaches to reactor thermal hydraulic analysis, also considering the importance of this discipline for the design and operation of safe and efficient water-cooled and moderated reactors. Part One presents the background to nuclear thermal hydraulics, starting with a historical perspective, defining key terms, and considering thermal hydraulics requirements in nuclear technology. Part Two addresses the principles of thermodynamics and relevant

target phenomena in nuclear systems. Next, the book focuses on nuclear thermal hydraulics modeling, covering the key areas of heat transfer and pressure drops, then moving on to an introduction to SYS TH and computational fluid dynamics codes. The final part of the book reviews the application of thermal hydraulics in nuclear technology, with chapters on V&V and uncertainty in SYS TH codes, the BEPU approach, and applications to new reactor design, plant lifetime extension, and accident analysis. This book is a valuable resource for academics, graduate students, and professionals studying the thermal hydraulic analysis of nuclear power plants and using SYS TH to demonstrate their safety and acceptability. Contains a systematic and comprehensive review of current approaches to the thermal-hydraulic analysis of water-cooled and moderated nuclear reactors Clearly presents the relationship between system level (top-down analysis) and component level phenomenology (bottom-up analysis) Provides a strong focus on nuclear system thermal hydraulic (SYS TH) codes Presents detailed coverage of the applications of thermal-hydraulics to demonstrate the safety and acceptability of nuclear power plants

Characterization of Polymer Blends Jun 17 2021 Filling the gap for a reference dedicated to the characterization of polymer blends and their micro and nano morphologies, this book provides comprehensive, systematic coverage in a one-stop, two-volume resource for all those working in the field. Leading researchers from industry and academia, as well as from government and private research institutions around the world summarize recent technical advances in chapters devoted to their individual contributions. In so doing, they examine a wide range of modern characterization techniques, from microscopy and spectroscopy to diffraction, thermal analysis, rheology, mechanical measurements and chromatography. These methods are compared with each other to assist in determining the best solution for both fundamental and applied problems, paying attention to the characterization of nanoscale miscibility and interfaces, both in blends involving copolymers and in immiscible blends. The thermodynamics, miscibility, phase separation, morphology and interfaces in polymer blends are also discussed in light of new insights involving the nanoscopic scale. Finally, the authors detail the processing-morphology-property relationships of polymer blends, as well as the influence of processing on the generation of micro and nano morphologies, and the dependence of these morphologies on the properties of blends. Hot topics such as compatibilization through nanoparticles, miscibility of new biopolymers and nanoscale investigations of interfaces in blends are also addressed. With its application-oriented approach, handpicked selection of topics and expert contributors, this is an outstanding survey for anyone involved in the field of polymer blends for advanced technologies.

Level Up! May 29 2022 Design and build cutting-edge video games with help from video game expert Scott Rogers! If you want to design and build cutting-edge video games but aren't sure where to start, then this is the book for you. Written by leading video game expert Scott Rogers, who has designed the hits Pac Man World, Maxim vs. Army of Zin, and SpongeBob Squarepants, this book is full of Rogers's wit and imaginative style that demonstrates everything you need to know about designing great video games. Features an approachable writing style that

considers game designers from all levels of expertise and experience Covers the entire video game creation process, including developing marketable ideas, understanding what gamers want, working with player actions, and more Offers techniques for creating non-human characters and using the camera as a character Shares helpful insight on the business of design and how to create design documents So, put your game face on and start creating memorable, creative, and unique video games with this book!

The Exiles Trilogy Jun 25 2019 When all the best of Earth's scientists are forced into exile to a space station to prevent their work from upsetting the status quo, they decide to embark on an even grander adventure to the stars. An epic three-volume saga from a science fiction master, all in one book: EXILED FROM EARTH FLIGHT OF EXILES END OF EXILE THE EXILES TRILOGY was highlighted in Discover Magazine as one of the top ten sources that inspired people's interest in science! Dr. Ben Bova is a six-time Hugo Award winner, and author of over 125 futuristic novels and nonfiction books about science and technology.

Electrical Characterization of Silicon-on-Insulator Materials and Devices May 17 2021 Silicon on Insulator is more than a technology, more than a job, and more than a venture in microelectronics; it is something different and refreshing in device physics. This book recalls the activity and enthusiasm of our SOI groups. Many contributing students have since then disappeared from the SOI horizon. Some of them believed that SOI was the great love of their scientific lives; others just considered SOI as a fantastic LEGO game for adults. We thank them all for kindly letting us imagine that we were guiding them. This book was very necessary to many people. SOI engineers will certainly be happy: indeed, if the performance of their SOI components is not always outstanding, they can now safely incriminate the relations given in the book rather than their process. Martine, Gunter, and Y. S. Chang can contemplate at last the amount of work they did with the figures. Our SOI accomplices already know how much we borrowed from their expertise and would find it indecent to have their detailed contributions listed. Jean-Pierre and Dimitris incited the book, while sharing their experience in the reliability of floating bodies. Our families and friends now realize the SOI capability of dielectrically isolating us for about two years in a BOX. Our kids encouraged us to start writing. Our wives definitely gave us the courage to stop writing. They had a hard time fighting the symptoms of a rapidly developing SOI allergy.

Linux Dictionary Jun 05 2020 This document is designed to be a resource for those Linux users wishing to seek clarification on Linux/UNIX/POSIX related terms and jargon. At approximately 24000 definitions and two thousand pages it is one of the largest Linux related dictionaries currently available. Due to the rapid rate at which new terms are being created it has been decided that this will be an active project. We welcome input into the content of this document. At this moment in time half yearly updates are being envisaged. Please note that if you wish to find a 'Computer Dictionary' then see the 'Computer Dictionary Project' at <http://computerdictionary.tsf.org.za/> Searchable databases exist at locations such as: <http://www.swpearl.com/eng/scripts/dictionary/> (SWP) Sun Wah-PearL Linux Training and Development Centre is a centre of the Hong Kong Polytechnic University, established in 2000. Presently SWP is delivering professional grade

Linux and related Open Source Software (OSS) technology training and consultant service in Hong Kong. SWP has an ambitious aim to promote the use of Linux and related Open Source Software (OSS) and Standards. The vendor independent positioning of SWP has been very well perceived by the market. Throughout the last couple of years, SWP becomes the Top Leading OSS training and service provider in Hong Kong. <http://www.geona.com/dictionary?b=> Geona, operated by Gold Vision Communications, is a new powerful search engine and internet directory, delivering quick and relevant results on almost any topic or subject you can imagine. The term "Geona" is an Italian and Hebrew name, meaning wisdom, exaltation, pride or majesty. We use our own database of spidered web sites and the Open Directory database, the same database which powers the core directory services for the Web's largest and most popular search engines and portals. Geona is spidering all domains listed in the non-adult part of the Open Directory and millions of additional sites of general interest to maintain a fulltext index of highly relevant web sites. <http://www.linuxdig.com/documents/dictionary.php>

LINUXDIG.COM, "Yours News and Resource Site", LinuxDig.com was started in May 2001 as a hobby site with the original intention of getting the RFC's online and becoming an Open Source software link/download site. But since that time the site has evolved to become a RFC distribution site, linux news site and a locally written technology news site (with bad grammer :)) with focus on Linux while also containing articles about anything and everything we find interesting in the computer world. LinuxDig.Com contains about 20,000 documents and this number is growing everyday! <http://linux.about.com/library/glossary/blglossary.htm> Each month more than 20 million people visit About.com. Whether it be home repair and decorating ideas, recipes, movie trailers, or car buying tips, our Guides offer practical advice and solutions for every day life. Wherever you land on the new About.com, you'll find other content that is relevant to your interests. If you're looking for "How To" advice on planning to re-finish your deck, we'll also show you the tools you need to get the job done. If you've been to About before, we'll show you the latest updates, so you don't see the same thing twice. No matter where you are on About.com, or how you got here, you'll always find content that is relevant to your needs. Should you wish to possess your own localised searchable version please make use of the available "dict", <http://www.dict.org/> version at the Linux Documentation Project home page, <http://www.tldp.org/> The author has decided to leave it up to readers to determine how to install and run it on their specific systems. An alternative form of the dictionary is available at: <http://elibrary.fultus.com/covers/technical/linux/guides/Linux-Dictionary/cover.html>

Fultus Corporation helps writers and companies to publish, promote, market, and sell books and eBooks. Fultus combines traditional self-publishing practices with modern technology to produce paperback and hardcover print-on-demand (POD) books and electronic books (eBooks). Fultus publishes works (fiction, non-fiction, science fiction, mystery, ...) by both published and unpublished authors. We enable you to self-publish easily and cost-effectively, creating your book as a print-ready paperback or hardcover POD book or as an electronic book (eBook) in multiple eBook's formats. You retain all rights to your work. We provide distribution to bookstores worldwide. And all at a fraction of the cost of traditional publishing. We

also offer corporate publishing solutions that enable businesses to produce and deliver manuals and documentation more efficiently and economically. Our use of electronic delivery and print-on-demand technologies reduces printed inventory and saves time. Please inform the author as to whether you would like to create a database or an alternative form of the dictionary so that he can include you in this list. Also note that the author considers breaches of copyright to be extremely serious. He will pursue all claims to the fullest extent of the law.

Mass Effect Sep 28 2019 "Covers PlayStation 4, Xbox One, and PC"--Cover.

MakerBot Educators Guidebook Jul 07 2020 The MakerBot Educators Guidebook is the most comprehensive blueprint for introducing 3D printing into the classroom. MakerBot collaborated with the largest community of 3D printing educators to create a crash course 3D printing, 9 classroom-ready 3D printing projects, and more!

Past Climate Variability through Europe and Africa Aug 20 2021 This book focuses on two complementary time-scales, the Holocene (approximately the last 11,500 years) and the last glacial-interglacial cycle (approximately the last 130,000 years) to synthesize evidence of climate variability at the regional and continental scale across Europe and Africa. This is the first examination of historical climate variations at such a scale, and thus sets a benchmark for future research.

Peak 40 Jul 27 2019 Work smarter, not harder. The first guide to truly holistic health and fitness for those in their 40s From Tom Brady to Serena Williams, Tiger Woods and Roger Federer athletes are increasingly peaking later in their careers. Let Dr Marc Bubbs be your personal trainer in this accessible guide— aimed exclusively at those in their 40s. Create a customized program that works for YOU—from diet, to sleep, type of training and mindset, this book has all the tools you need. Peak 40 is for anyone wanting to rediscover the best version of themselves coming into their 40s. Author Dr Marc Bubbs is a performance nutritionist with a portfolio of professional and Olympic athletes - but he is also the dad of three girls, all under 7! Dr. Bubbs is here with you, in the eye of the mid-life storm, and he has created the ultimate book to help you through it. For fans of Joe Wicks and Michael Mosley, Dr. Bubbs offers simple, evidence-based and time-efficient strategies to help you reignite your energy and passion. His realistic, grown-up and non-judgemental approach is to explain the effect some food groups and lack of exercise and sleep have on our body. The information presented is easy to digest and he offers advice that can be tailored to your body and personality type. In his expert opinion, small changes such as 'not eating after 8pm for five out of seven days' can have a big impact on weight loss and positive mood. Rather than eliminating certain food groups like fats and carbohydrates, he looks at 'turning the dial' on them depending on individual needs. If life has become too sedentary, he provides ways to increase suppleness so that you can start to reintroduce movement into your life without causing pain. Guiding us through the myriad of confusion lifestyle messages, Dr. Bubbs teaches us: How to increase flexibility How to train with achy joints, knees, back, shoulders... Whether a plant-based diet is right How to maintain bone health Whether to lift weights Who should do HIIT (and who shouldn't) The importance of glucose control in your diet Advice on dealing with anxiety and low mood How to set realistic expectations "[Bubbs]

dives into the nutrition and science—where it's been and where it's heading."—Zack Bitter, world record-holding ultra marathoner, as heard on "The Joe Rogan Experience" "Dr. Bubbs's advice on nutrition, health, and recovery for peak performance has been a game changer!"—Kevin Pangos, point guard, Barcelona FC Basketball

Popular Science Nov 30 2019

Hands-On Artificial Intelligence for Cybersecurity Jan 01 2020 Build smart cybersecurity systems with the power of machine learning and deep learning to protect your corporate assets Key FeaturesIdentify and predict security threats using artificial intelligenceDevelop intelligent systems that can detect unusual and suspicious patterns and attacksLearn how to test the effectiveness of your AI cybersecurity algorithms and toolsBook Description Today's organizations spend billions of dollars globally on cybersecurity. Artificial intelligence has emerged as a great solution for building smarter and safer security systems that allow you to predict and detect suspicious network activity, such as phishing or unauthorized intrusions. This cybersecurity book presents and demonstrates popular and successful AI approaches and models that you can adapt to detect potential attacks and protect your corporate systems. You'll learn about the role of machine learning and neural networks, as well as deep learning in cybersecurity, and you'll also learn how you can infuse AI capabilities into building smart defensive mechanisms. As you advance, you'll be able to apply these strategies across a variety of applications, including spam filters, network intrusion detection, botnet detection, and secure authentication. By the end of this book, you'll be ready to develop intelligent systems that can detect unusual and suspicious patterns and attacks, thereby developing strong network security defenses using AI. What you will learnDetect email threats such as spamming and phishing using AICategorize APT, zero-days, and polymorphic malware samplesOvercome antivirus limits in threat detectionPredict network intrusions and detect anomalies with machine learningVerify the strength of biometric authentication procedures with deep learningEvaluate cybersecurity strategies and learn how you can improve themWho this book is for If you're a cybersecurity professional or ethical hacker who wants to build intelligent systems using the power of machine learning and AI, you'll find this book useful. Familiarity with cybersecurity concepts and knowledge of Python programming is essential to get the most out of this book.

Power Electronics and Renewable Energy Systems Dec 12 2020 The book is a collection of high-quality peer-reviewed research papers presented in the Proceedings of International Conference on Power Electronics and Renewable Energy Systems (ICPERES 2014) held at Rajalakshmi Engineering College, Chennai, India. These research papers provide the latest developments in the broad area of Power Electronics and Renewable Energy. The book discusses wide variety of industrial, engineering and scientific applications of the emerging techniques. It presents invited papers from the inventors/originators of new applications and advanced technologies.

Systems of Commercial Turbofan Engines Aug 27 2019 To understand the operation of aircraft gas turbine engines, it is not enough to know the basic operation of a gas turbine. It is also necessary to understand the operation and the

design of its auxiliary systems. This book fills that need by providing an introduction to the operating principles underlying systems of modern commercial turbofan engines and bringing readers up to date with the latest technology. It also offers a basic overview of the tubes, lines, and system components installed on a complex turbofan engine. Readers can follow detailed examples that describe engines from different manufacturers. The text is recommended for aircraft engineers and mechanics, aeronautical engineering students, and pilots.

The Car Hacker's Handbook Jun 29 2022 Modern cars are more computerized than ever. Infotainment and navigation systems, Wi-Fi, automatic software updates, and other innovations aim to make driving more convenient. But vehicle technologies haven't kept pace with today's more hostile security environment, leaving millions vulnerable to attack. The Car Hacker's Handbook will give you a deeper understanding of the computer systems and embedded software in modern vehicles. It begins by examining vulnerabilities and providing detailed explanations of communications over the CAN bus and between devices and systems. Then, once you have an understanding of a vehicle's communication network, you'll learn how to intercept data and perform specific hacks to track vehicles, unlock doors, glitch engines, flood communication, and more. With a focus on low-cost, open source hacking tools such as Metasploit, Wireshark, Kayak, can-utils, and ChipWhisperer, The Car Hacker's Handbook will show you how to: –Build an accurate threat model for your vehicle –Reverse engineer the CAN bus to fake engine signals –Exploit vulnerabilities in diagnostic and data-logging systems –Hack the ECU and other firmware and embedded systems –Feed exploits through infotainment and vehicle-to-vehicle communication systems –Override factory settings with performance-tuning techniques –Build physical and virtual test benches to try out exploits safely If you're curious about automotive security and have the urge to hack a two-ton computer, make The Car Hacker's Handbook your first stop.

Advances in Building Services Engineering May 05 2020 This book provides a comprehensive, systematic overview of original theoretical, experimental, and numerical studies in the building services engineering domain. It brings together different strands of the topic, guided by the two key features of energy savings and reduction of the pollutant emissions. Technical, economic, and energy efficiency aspects related to the design, modelling, optimisation, and operation of diverse building services systems are explored. This book includes various theoretical studies, numerical and optimisation models, experiments, and applications in this field, giving an emphasis to: indoor environment quality assurance; energy analysis, modelling, and optimisation of heating systems; improving the energy performance of refrigeration and air-conditioning systems; valorising the solar and geothermal energies; analysis of thermal energy storage technologies; hydraulic simulation and optimisation of water distribution systems; and improving the energy efficiency of water pumping. With 11 pedagogically structured chapters, containing numerous illustrations, tables, and examples, this book provides researchers, lecturers, engineers, and graduate students with a thorough guide to building service engineering.

Popular Science Sep 20 2021 Popular Science gives our readers the information

and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

Enabling the Internet of Things Sep 08 2020 This book offers the first comprehensive view on integrated circuit and system design for the Internet of Things (IoT), and in particular for the tiny nodes at its edge. The authors provide a fresh perspective on how the IoT will evolve based on recent and foreseeable trends in the semiconductor industry, highlighting the key challenges, as well as the opportunities for circuit and system innovation to address them. This book describes what the IoT really means from the design point of view, and how the constraints imposed by applications translate into integrated circuit requirements and design guidelines. Chapter contributions equally come from industry and academia. After providing a system perspective on IoT nodes, this book focuses on state-of-the-art design techniques for IoT applications, encompassing the fundamental sub-systems encountered in Systems on Chip for IoT: ultra-low power digital architectures and circuits low- and zero-leakage memories (including emerging technologies) circuits for hardware security and authentication System on Chip design methodologies on-chip power management and energy harvesting ultra-low power analog interfaces and analog-digital conversion short-range radios miniaturized battery technologies packaging and assembly of IoT integrated systems (on silicon and non-silicon substrates). As a common thread, all chapters conclude with a prospective view on the foreseeable evolution of the related technologies for IoT. The concepts developed throughout the book are exemplified by two IoT node system demonstrations from industry. The unique balance between breadth and depth of this book: enables expert readers quickly to develop an understanding of the specific challenges and state-of-the-art solutions for IoT, as well as their evolution in the foreseeable future provides non-experts with a comprehensive introduction to integrated circuit design for IoT, and serves as an excellent starting point for further learning, thanks to the broad coverage of topics and selected references makes it very well suited for practicing engineers and scientists working in the hardware and chip design for IoT, and as textbook for senior undergraduate, graduate and postgraduate students (familiar with analog and digital circuits).

The Secrets of Play Station 2 Jul 19 2021 It's been called "the future of entertainment" -- an electronic system that combines the best of gaming with web and DVD-playing capabilities. Released in Japan in March 2000, the Playstation2 has already sold more than two million units, with projected sales of ten million units worldwide by March 2001. In *The Secrets of the Playstation2,* you'll learn from a gaming industry insider about the hottest system ever released -- its capabilities, its software, the types of games being developed to best take advantage of its graphics engine. Plus you'll profit from knowledge of the early experiences of Japanese fans of this machine and learn how to get the most out of the system before you buy it.

Fierce Chemistry Jan 31 2020 One hundred years on from the Dangerous Drugs Act of 1920, this book examines the money, politics and exploitation behind drugs and raises the question nobody asks: 'What kind of drugs policy do we actually

want in the UK?'

Superconductors in the Power Grid Mar 27 2022 Superconductors offer high throughput with low electric losses and have the potential to transform the electric power grid. Transmission networks incorporating cables of this type could, for example, deliver more power and enable substantial energy savings.

Superconductors in the Power Grid: Materials and Applications provides an overview of superconductors and their applications in power grids. Sections address the design and engineering of cable systems and fault current limiters and other emerging applications for superconductors in the power grid, as well as case studies of industrial applications of superconductors in the power grid. Expert editor from highly respected US government-funded research centre Unique focus on superconductors in the power grid Comprehensive coverage

The Gamma-Ray Observatory Oct 29 2019

Algae Based Polymers, Blends, and Composites Feb 11 2021 Algae Based Polymers, Blends, and Composites: Chemistry, Biotechnology and Material Sciences offers considerable detail on the origin of algae, extraction of useful metabolites and major compounds from algal bio-mass, and the production and future prospects of sustainable polymers derived from algae, blends of algae, and algae based composites. Characterization methods and processing techniques for algae-based polymers and composites are discussed in detail, enabling researchers to apply the latest techniques to their own work. The conversion of bio-mass into high value chemicals, energy, and materials has ample financial and ecological importance, particularly in the era of declining petroleum reserves and global warming. Algae are an important source of biomass since they flourish rapidly and can be cultivated almost everywhere. At present the majority of naturally produced algal biomass is an unused resource and normally is left to decompose. Similarly, the use of this enormous underexploited biomass is mainly limited to food consumption and as bio-fertilizer. However, there is an opportunity here for materials scientists to explore its potential as a feedstock for the production of sustainable materials. Provides detailed information on the extraction of useful compounds from algal biomass Highlights the development of a range of polymers, blends, and composites Includes coverage of characterization and processing techniques, enabling research scientists and engineers to apply the information to their own research and development Discusses potential applications and future prospects of algae-based biopolymers, giving the latest insight into the future of these sustainable materials

Theory Testmock Papers Apr 03 2020

Green Technologies and Business Practices: An IT Approach Jul 31 2022 Green technology plays an important role in the achievement of environmental sustainability. Tax incentives, carbon taxes, and rising fossil fuel costs are motivating increased growth and development of 'green' products and services, many of which are the result of innovative discoveries in biotechnology and nanotechnology. Green Technologies and Business Practices: An IT Approach is an international platform that brings together academics, researchers, lecturers, policy makers, practitioners, and persons in decision-making positions from all backgrounds who ultimately share new theories, research findings and case

studies, together enhancing understanding and collaboration of green issues in business and the role of information technologies and also analyze recent developments in theory and practice. Furthermore, this book demonstrates the capacity of green models and policies, information technology and management for the mutual understanding, prosperity and overall well-being of all the citizens in the world. This title is perfect for politicians, professors, policy makers, government officers, and students alike.

Formal Verification of Probabilistic Systems Dec 24 2021 This dissertation presents methods for the formal modeling and specification of probabilistic systems, and algorithms for the automated verification of these systems. Our system models describe the behavior of a system in terms of probability, nondeterminism, fairness and time.

Connecting Science and Engineering Education Practices in Meaningful Ways Oct 22 2021 The need for a scientifically literate citizenry, one that is able to think critically and engage productively in the engineering design process, has never been greater. By raising engineering design to the same level as scientific inquiry the Next Generation Science Standards' (NGSS) have signaled their commitment to the integration of engineering design into the fabric of science education. This call has raised many critical questions...How well do these new standards represent what actually engineers do? Where do the deep connections among science and engineering practices lie? To what extent can (or even should) science and engineering practices co-exist in formal and informal educational spaces? Which of the core science concepts are best to leverage in the pursuit of coherent and compelling integration of engineering practices? What science important content may be pushed aside? This book, tackles many of these tough questions head on. All of the contributing authors consider the same core question: Given the rapidly changing landscape of science education, including the elevated status of engineering design, what are the best approaches to the effective integration of the science and engineering practices? They answered with rich descriptions of pioneering approaches, critical insights, and useful practical examples of how embodying a culture of interdisciplinarity and innovation can fuel the development of a scientifically literate citizenry . This collection of work builds traversable bridges across diverse research communities and begins to break down long standing disciplinary silos that have historically often hamstrung well-meaning efforts to bring research and practice from science and engineering together in meaningful and lasting ways.

Agglomeration in Metallurgy Nov 10 2020 This book gives details on the processes of agglomeration and its role in modern metal production processes. It starts with a chapter on sinter production, also discussing the quality of sinter and environmental aspects involved on the process. The following chapters focus on pellet production and briquetting of natural and anthropogenic raw materials. It also highlights the best available technologies for briquetting by stiff extrusion.

The Complement System Jan 13 2021 Complement Systems: Methods and Protocols is composed of 32 individual chapters that describe a variety of protocols to purify and analyze the activity of the individual complement components or pathways. It includes assays that describe detection of complement SNPs, clinical

methods to evaluate complement system activation and data interpretation. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, *Complement Systems: Methods and Protocols* provides a collection of well-established "classical" assays and recently developed "new" assays to analyze the complement system activation will be useful to a wide audience of scientists.

Food Proteins and Their Applications Oct 02 2022 Reviews the physiochemical properties of the main food proteins and explores the interdependency between the structure-function relationship of specific protein classes and the processing technologies applied to given foods. The book offers solutions to current problems related to the complexity of food composition, preparation and storage, and includes such topics as foams, emulsions, gelation by macromolecules, hydrolysis, microparticles/fat replacers, protein-based edible films, and extraction procedures.

[Behavior Trees in Robotics and AI](#) Sep 01 2022 Behavior Trees (BTs) provide a way to structure the behavior of an artificial agent such as a robot or a non-player character in a computer game. Traditional design methods, such as finite state machines, are known to produce brittle behaviors when complexity increases, making it very hard to add features without breaking existing functionality. BTs were created to address this very problem, and enables the creation of systems that are both modular and reactive. *Behavior Trees in Robotics and AI: An Introduction* provides a broad introduction as well as an in-depth exploration of the topic, and is the first comprehensive book on the use of BTs. This book introduces the subject of BTs from simple topics, such as semantics and design principles, to complex topics, such as learning and task planning. For each topic, the authors provide a set of examples, ranging from simple illustrations to realistic complex behaviors, to enable the reader to successfully combine theory with practice. Starting with an introduction to BTs, the book then describes how BTs relate to, and in many cases, generalize earlier switching structures, or control architectures. These ideas are then used as a foundation for a set of efficient and easy to use design principles. The book then presents a set of important extensions and provides a set of tools for formally analyzing these extensions using a state space formulation of BTs. With the new analysis tools, the book then formalizes the descriptions of how BTs generalize earlier approaches and shows how BTs can be automatically generated using planning and learning. The final part of the book provides an extended set of tools to capture the behavior of Stochastic BTs, where the outcomes of actions are described by probabilities. These tools enable the computation of both success probabilities and time to completion. This book targets a broad audience, including both students and professionals interested in modeling complex behaviors for robots, game characters, or other AI agents. Readers can choose at which depth and pace they want to learn the subject, depending on their needs and background.

Managing Capital Flows Nov 03 2022 *Managing Capital Flows* provides analyses that can help policymakers develop a framework for managing capital flows that is

consistent with prudent macroeconomic and financial sector stability. While capital inflows can provide emerging market economies with invaluable benefits in pursuing economic development and growth, they can also pose serious policy challenges for macroeconomic management and financial sector supervision. The expert contributors cover a wide range of issues related to managing capital flows and analyze the experience of emerging Asian economies in dealing with surges in capital inflows. They also discuss possible policy measures to manage capital flows while remaining consistent with the goals of macroeconomic and financial sector stability. Building on this analysis, the book presents options for workable national policies and regional policy cooperation, particularly in exchange rate management. Containing chapters that bring in international experiences relevant to Asia and other emerging market economies, this insightful book will appeal to policymakers in governments and financial institutions, as well as public and private finance experts. It will also be of great interest to advanced students and academic researchers in finance.

Ionic Liquids Nov 22 2021 Ionic Liquids (ILs) are one of the most interesting and rapidly developing areas of modern physical chemistry, technologies and engineering. This book, consisting of 29 chapters gathered in 4 sections, reviews in detail and compiles information about some important physical-chemical properties of ILs and new practical approaches. This is the first book of a series of forthcoming publications on this field by this publisher. The first volume covers some aspects of synthesis, isolation, production, modification, the analysis methods and modeling to reveal the structures and properties of some room temperature ILs, as well as their new possible applications. The book will be of help to chemists, physicists, biologists, technologists and other experts in a variety of disciplines, both academic and industrial, as well as to students and PhD students. It may help to promote the progress in ILs development also.

Implementing Software Defined Radio Jan 25 2022 Software Defined Radio makes wireless communications easier, more efficient, and more reliable. This book bridges the gap between academic research and practical implementation. When beginning a project, practicing engineers, technical managers, and graduate students can save countless hours by considering the concepts presented in these pages. The author covers the myriad options and trade-offs available when selecting an appropriate hardware architecture. As demonstrated here, the choice between hardware- and software-centric architecture can mean the difference between meeting an aggressive schedule and bogging down in endless design iterations. Because of the author's experience overseeing dozens of failed and successful developments, he is able to present many real-life examples. Some of the key concepts covered are: Choosing the right architecture for the market – laboratory, military, or commercial, Hardware platforms – FPGAs, GPPs, specialized and hybrid devices, Standardization efforts to ensure interoperability and portability State-of-the-art components for radio frequency, mixed-signal, and baseband processing. The text requires only minimal knowledge of wireless communications; whenever possible, qualitative arguments are used instead of equations. An appendix provides a quick overview of wireless communications and introduces most of the concepts the readers will need to take advantage of the

material. An essential introduction to SDR, this book is sure to be an invaluable addition to any technical bookshelf.

Virtual Testing and Predictive Modeling Oct 10 2020

The materials used in manufacturing the aerospace, aircraft, automobile, and nuclear parts have inherent flaws that may grow under actuating load environments during the operational phase of the structural hardware. The design philosophy, material selection, analysis approach, testing, quality control, inspection, and manufacturing are key elements that can contribute to failure prevention and assure a trouble-free structure. To have a robust structure, it must be designed to withstand the environmental load throughout its service life, even when the structure has pre-existing flaws or when a part of the structure has already failed. If the design philosophy of the structure is based on the fail-safe requirements, or multiple load path design, partial failure of a structural component due to crack propagation is localized and safely contained or arrested. For that reason, proper inspection technique must be scheduled for reusable parts to detect the amount and rate of crack growth, and the possible need for repairing or replacement of the part. An example of a fail-safe designed structure with crack-arrest feature, common to all aircraft structural parts, is the skin-stiffened design configuration. However, in other cases, the design philosophy has safe-life or single load path feature, where analysts must demonstrate that parts have adequate life during their service operation and the possibility of catastrophic failure is remote. For example, all pressurized vessels that have single load path feature are classified as high-risk parts. During their service operation, these tanks may develop cracks, which will grow gradually in a stable manner.

Xbox Revisited Aug 08 2020 "An entertaining and refreshingly honest . . . exploration of business strategy, personal growth, and civic responsibility" by a former Microsoft executive (Publishers Weekly). From Microsoft's former Chief Xbox Officer, Robbie Bach, comes a unique book that provides a simple yet robust framework that can be used to tackle almost any problem. In Xbox Revisited: A Game Plan for Corporate and Civic Renewal, Bach takes business, non-profit, and community-engaged readers on the Xbox journey—a triumphant and personal saga from garage-shop beginnings to business success. Using the 3P Framework of Purpose, Principles, and Priorities developed by the Xbox team, Bach describes the process used to revitalize a beleaguered business and then applies those lessons to our most difficult community issues and the challenges of a nation at a crossroads. Bach is turning his strategic and leadership skills to a new opportunity: helping individuals and organizations drive transformational change in business and civic institutions. The book is packed with common sense thinking and a strategic framework that can set change in motion at every level of community life. Xbox Revisited is a wake-up call, a challenge to every citizen to become a "civic engineer" addressing the issues we face in our communities and across our country. "A highly effective, common-sense strategy to address difficult business and community issues . . . Seen through the lens of the creation of the Xbox, the story he tells from personal experience is both engaging and inspirational." —Jeff Raikes, co-founder, Raikes Foundation, former CEO, Bill & Melinda Gates Foundation and president, Microsoft Business Division

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