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Journal of Visual Impairment & Blindness InfoWorld InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects. **Hacking- The art Of Exploitation Eh** oshean collins This text introduces the spirit and theory of hacking as well as the science behind it all; it also provides some core techniques and tricks of hacking so you can think like a hacker, write your own hacks or thwart potential system attacks. **The Constitution of Algorithms Ground-Truthing, Programming, Formulating** MIT Press A laboratory study that investigates how algorithms come into existence. Algorithms--often associated with the terms big data, machine learning, or artificial intelligence--underlie the technologies we use every day, and disputes over the consequences, actual or potential, of new algorithms arise regularly. In this book, Florian Jaton offers a new way to study computerized methods, providing an account of where algorithms come from and how they are constituted, investigating the practical activities by which algorithms are progressively assembled rather than what they may suggest or require once they are assembled. **Blown to Bits Your Life, Liberty, and Happiness After the Digital Explosion** Addison-Wesley Professional Every day, billions of photographs, news stories, songs, X-rays, TV shows, phone calls, and emails are being scattered around the world as sequences of zeroes and ones: bits. We can't escape this explosion of digital information and few of us want to-the benefits are too seductive. The technology has enabled unprecedented innovation, collaboration, entertainment, and democratic participation. But the same engineering marvels are shattering centuries-old assumptions about privacy, identity, free expression, and personal control as more and more details of our lives are captured as digital data. Can you control who sees all that personal information about you? Can email be truly confidential, when nothing seems to be private? Shouldn't the Internet be censored the way radio and TV are? is it really a federal crime to download music? When you use Google or Yahoo! to search for something, how do they decide which sites to show you? Do you still have free speech in the digital world? Do you have a voice in shaping government or corporate policies about any of this? Blown to Bits offers provocative answers to these questions and tells intriguing real-life stories. This book is a wake-up call To The human consequences of the digital explosion. **Compute Genealogical Computing Bayesian Networks A Practical Guide to Applications** John Wiley & Sons Bayesian Networks, the result of the convergence of artificial intelligence with statistics, are growing in popularity. Their versatility and modelling power is now employed across a variety of fields for the purposes of analysis, simulation, prediction and diagnosis. This book provides a general introduction to Bayesian networks, defining and illustrating the basic concepts with pedagogical examples and twenty real-life case studies drawn from a range of fields including medicine, computing, natural sciences and engineering. Designed to help analysts, engineers, scientists and professionals taking part in complex decision processes to successfully implement Bayesian networks, this book equips readers with proven methods to generate, calibrate, evaluate and validate Bayesian networks. The book: Provides the tools to overcome common practical challenges such as the treatment of missing input data, interaction with experts and decision makers, determination of the optimal granularity and size of the model. Highlights the strengths of Bayesian networks whilst also presenting a discussion of their limitations. Compares Bayesian networks with other modelling techniques such as neural networks, fuzzy logic and fault trees. Describes, for ease of comparison, the main features of the major Bayesian network software packages: Netica, Hugin, Elvira and Discoverer, from the point of view of the user. Offers a historical perspective on the subject and analyses future directions for research. Written by leading experts with practical experience of applying Bayesian networks in finance, banking, medicine, robotics, civil engineering, geology, geography, genetics, forensic science, ecology, and industry, the book has much to offer both practitioners and researchers involved in statistical analysis or modelling in any of these fields. **Computer Organization and Design RISC-V Edition The Hardware Software Interface** Morgan Kaufmann The new RISC-V Edition of Computer Organization and Design features the RISC-V open source instruction set architecture, the first open source architecture designed to be used in modern computing environments such as cloud computing, mobile devices, and other embedded systems. With the post-PC era now upon us, Computer Organization and Design moves forward to explore this generational change with examples, exercises, and material highlighting the emergence of mobile computing and the Cloud. Updated content featuring tablet computers, Cloud infrastructure, and the x86 (cloud computing) and ARM (mobile computing devices) architectures is included. An online companion Web site provides advanced content for further study, appendices, glossary, references, and recommended reading. Features RISC-V, the first such architecture designed to be used in modern computing environments, such as cloud computing, mobile devices, and other embedded systems Includes relevant examples, exercises, and material highlighting the emergence of mobile computing and the cloud **Computer Organization and Design The Hardware/Software Interface** Elsevier "Presents the fundamentals of hardware technologies, assembly language, computer arithmetic, pipelining, memory hierarchies and I/O"-- **Communication, Control, and Computer Access for Disabled and Elderly Individuals** Trace Research and Development Center Waisman Center One of a series of three resource guides concerned with communication, control, and computer access for the disabled or the elderly, the book focuses on hardware and software. The guide's 13 chapters each cover products with the same primary function. Cross reference indexes allow access to listings of products by function, input/output feature,and computer model. Switches are listed separately by input/output features. Typically provided for each product are usually an illustration, the product name, vendor, size, weight, power source, connector type, cost, and a description. Part I, "Computer Adaptations," presents the following types of items: modifications for standard keyboards; alternate inputs usable with all software; input devices usable with only some software; input adapters for computers; alternate display systems usable with all software; Braille printers and tactile display components; speech synthesizers; and other software and hardware adaptations. Part II, "Application Software for Special Ed and Rehab," includes software for administration and management; assessment; education, training, and therapy; recreation; and personal tools or aids. Appendixes include a list of additional sources of information, a glossary, addresses of manufacturers listed with their products, and an alphabetical listing of all products in the 3-book series. (DB) **Prometheus: Up & Running Infrastructure and Application Performance Monitoring** "O'Reilly Media, Inc." Get up to speed with Prometheus, the metrics-based monitoring system used by tens of thousands of organizations in production. This practical guide provides application developers, sysadmins, and DevOps practitioners with a hands-on introduction to the most important aspects of Prometheus, including dashboarding and alerting, direct code instrumentation, and metric collection from third-party systems with exporters. This open source system has gained popularity over the past few years for good reason. With its simple yet powerful data model and query language, Prometheus does one thing, and it does it well. Author and Prometheus developer Brian Brazil guides you through Prometheus setup, the Node exporter, and the Alertmanager, then demonstrates how to use them for application and infrastructure monitoring. Know where and how much to apply instrumentation to your application code Identify metrics with labels using unique key-value pairs Get an introduction to Grafana, a popular tool for building dashboards Learn how to use the Node Exporter to monitor your infrastructure Use service discovery to provide different views of your machines and services Use Prometheus with Kubernetes and examine exporters you can use with containers Convert data from other monitoring systems into the Prometheus format **Using C-Kermit** Digital Press The world's most portable communications software, C-Kermit runs on computers ranging from desktop PCs to colossal supercomputers as a serial and modem communications package as well as a TCP/IP network client and server. It offers automatic dialing, terminal sessions, fast and reliable file transfer, a powerful script programming language, and international character-set translation-all in a consistent, cross-platform manner. Using C-Kermit: Communication Software, Second Edition is the new and definitve reference for C-Kermit 6.0, expanded and updated to describe fully all of its new features with brand-new tutorials on today's high-speed modems and how to get the most out of them. Some noteworthy features of this reference are: - The most sophisticated discussion of modems, telephones numbers, dialing directories, and dialing available anywhere - New techniques for achieving faster and faster file transfer - A new chapter on external protocols such as XMODEM, YMODEM, and ZMODEM - Expanded coverage of TCP/IP, X.25, DECnet, NETBIOS, and other networks - Automatic client/server features - Support for many new platforms - most notably Windows 95, Windows NT, and Stratus VOS - Support for many new character sets - Massive improvements in the power and usability of the script language Like the first edition, the second edition of Using C-Kermit includes complete reference material: character tables, tables of escape sequences, an "acronym decoder," an excellent index, and an extensive bibliography. Frank da Cruz is manager of Communications Software Development at Columbia University. He was the leader of the group that invented the Kermit file transfer protocol and wrote the first Kermit programs. He is the author of Kermit, A File Transfer Protocol, published by Digital Press. Christine M. Gianone is manager of the Kermit Project at Columbia University. She was a major contributor to the design of the Kermit file transfer protocol and to the design of MS-DOS Kermit and C-Kermit. She is the author of Using MS-DOS Kermit, published by Digital Press. Frank and Christine "are" Kermit: they manage all of the functions of the Kermit group at Columbia, from helping users to putting out new products. Describes the most sophisticated and flexible handling of modems, telephone numbers, dialing directories, and dialing available anywhere Covers new techniques for achieving faster file transfers Explains support for many new platforms, most notably Windows 95, Windows NT and Stratus VOS **Sharepoint 2010** Quickstudy SharePoint 2010 is among the many cutting-edge applications to be found within Microsoft's Office Suite software--our newest 3-panel guide will help you get the most out of this handy tool. The fluff-free content includes important definitions, tips, and step-by-step instructions on how to perform each key function within SharePoint; full-color screen shots are also provided for ease of use. **The Essentials of Computer Organization and Architecture** Jones & Bartlett Learning Updated and revised, The Essentials of Computer Organization and Architecture, Third Edition is a comprehensive resource that addresses all of the necessary organization and architecture topics, yet is appropriate for the one-term course. **Government Reports Annual Index Springer Handbook of Automation** Springer Science & Business Media This handbook incorporates new developments in automation. It also presents a widespread and well-structured conglomeration of new emerging application areas, such as medical systems and health, transportation, security and maintenance, service, construction and retail as well as production or logistics. The handbook is not only an ideal resource for automation experts but also for people new to this expanding field. **Informal Introduction to ALGOL 68 Lighting Dimensions Ugly's Residential Wiring, 2020 Edition** Jones & Bartlett Learning Before beginning a residential project make sure you've got Ugly's Residential Wiring, 2020 Edition in your toolbox. Updated to reflect the 2020 National Electrical Code (NEC®), this quick on-the-job reference has been specifically designed to provide the most commonly required electrical wiring information for residential work in an easy-to-read, easy-to-access format. You will save precious time and money with instant access to specific rules, symbols and code requirements for wiring dwellings that ensure your job stays on task and passes inspection the first time.The perfect tool for electricians, contractors, designers, instructors, students, and do-it-yourself home owners, Ugly's Residential Wiring includes coverage of basic residential requirements, including: Features & Benefits: Allowable Ampacities Ohm's Law Grounding Parallel Circuits Series Circuits Services and Service Points Conduit Fill Wiring Diagrams and Rules **Apple Confidential 2.0 The Definitive History of the World's Most Colorful Company** No Starch Press Chronicles the best and the worst of Apple Computer's remarkable story. **Investigation Of Competition In Digital Markets Majority Staff Report And Recommendations** Nimble Books In June 2019, the Committee on the Judiciary initiated a bipartisan investigation into the state of competition online, spearheaded by the Subcommittee on Antitrust, Commercial and Administrative Law. As part of a top-to-bottom review of the market, the Subcommittee examined the dominance of Amazon, Apple, Facebook, and Google, and their business practices to determine how their poweraffects our economy and our democracy. Additionally, the Subcommittee performed a review of existing

antitrust laws, competition policies, and current enforcement levels to assess whether they areadequate to address market power and anticompetitive conduct in digital markets. Over the course of our investigation, we collected extensive evidence from these companies aswell as from third parties-totaling nearly 1.3 million documents. We held seven hearings to review the effects of market power online-including on the free and diverse press, innovation, and privacy-and a final hearing to examine potential solutions to concerns identified during the investigation and to inform this Report's recommendations. A year after initiating the investigation, we received testimony from the Chief ExecutiveOfficers of the investigated companies: Jeff Bezos, Tim Cook, Mark Zuckerberg, and Sundar Pichai. For nearly six hours, we pressed for answers about their business practices, including about evidence concerning the extent to which they have exploited, entrenched, and expanded their power over digitalmarkets in anticompetitive and abusive ways. Their answers were often evasive and non-responsive, raising fresh questions about whether they believe they are beyond the reach of democratic oversight. Although these four corporations differ in important ways, studying their business practices hasrevealed common problems **Entertainment Design Fisher Health Care Mirror Worlds or the Day Software Puts the Universe in a Shoebox...How It Will Happen and What It Will Mean** Oxford University Press Technology doesn't flow smoothly; it's the big surprises that matter, and Yale computer expert David Gelernter sees one such giant leap right on the horizon. Today's small scale software programs are about to be joined by vast public software works that will revolutionize computing and transform society as a whole. One such vast program is the "Mirror World." Imagine looking at your computer screen and seeing reality--an image of your city, for instance, complete with moving traffic patterns, or a picture that sketches the state of an entire far-flung corporation at this second. These representations are called Mirror Worlds, and according to Gelernter they will soon be available to everyone. Mirror Worlds are high-tech voodoo dolls: by interacting with the images, you interact with reality. Indeed, Mirror Worlds will revolutionize the use of computers, transforming them from (mere) handy tools to crystal balls which will allow us to see the world more vividly and see into it more deeply. Reality will be replaced gradually, piece-by-piece, by a software imitation; we will live inside the imitation; and the surprising thing is--this will be a great humanistic advance. We gain control over our world, plus a huge new measure of insight and vision. In this fascinating book--part speculation, part explanation--Gelernter takes us on a tour of the computer technology of the near future. Mirror Worlds, he contends, will allow us to explore the world in unprecedented depth and detail without ever changing out of our pajamas. A hospital administrator might wander through an entire medical complex via a desktop computer. Any citizen might explore the performance of the local schools, chat electronically with teachers and other Mirror World visitors, plant software agents to report back on interesting topics; decide to run for the local school board, hire a campaign manager, and conduct the better part of the campaign itself--all by interacting with the Mirror World. Gelernter doesn't just speculate about how this amazing new software will be used-- he shows us how it will be made, explaining carefully and in detail how to build a Mirror World using technology already available. We learn about "disembodied machines," "trellises," "ensembles," and other computer components which sound obscure, but which Gelernter explains using familiar metaphors and terms. (He tells us that a Mirror World is a microcosm just like a Japanese garden or a Gothic cathedral, and that a computer program is translated by the computer in the same way a symphony is translated by a violinist into music.) Mirror Worlds offers a lucid and humanistic account of the coming software revolution, told by a computer scientist at the cutting edge of his field. **Macworld The Macintosh Magazine Simple Steps to Data Encryption A Practical Guide to Secure Computing** Newnes Everyone wants privacy and security online, something that most computer users have more or less given up on as far as their personal data is concerned. There is no shortage of good encryption software, and no shortage of books, articles and essays that purport to be about how to use it. Yet there is precious little for ordinary users who want just enough information about encryption to use it safely and securely and appropriately--WITHOUT having to become experts in cryptography. Data encryption is a powerful tool, if used properly. Encryption turns ordinary, readable data into what looks like gibberish, but gibberish that only the end user can turn back into readable data again. The difficulty of encryption has much to do with deciding what kinds of threats one needs to protect against and then using the proper tool in the correct way. It's kind of like a manual transmission in a car: learning to drive with one is easy; learning to build one is hard. The goal of this title is to present just enough for an average reader to begin protecting his or her data, immediately. Books and articles currently available about encryption start out with statistics and reports on the costs of data loss, and quickly get bogged down in cryptographic theory and jargon followed by attempts to comprehensively list all the latest and greatest tools and techniques. After step-by-step walkthroughs of the download and install process, there's precious little room left for what most readers really want: how to encrypt a thumb drive or email message, or digitally sign a data file. There are terabytes of content that explain how cryptography works, why it's important, and all the different pieces of software that can be used to do it; there is precious little content available that couples concrete threats to data with explicit responses to those threats. This title fills that niche. By reading this title readers will be provided with a step by step hands-on guide that includes: Simple descriptions of actual threat scenarios Simple, step-by-step instructions for securing data How to use open source, time-proven and peer-reviewed cryptographic software Easy to follow tips for safer computing Unbiased and platform-independent coverage of encryption tools and techniques Simple descriptions of actual threat scenarios Simple, step-by-step instructions for securing data How to use open source, time-proven and peer-reviewed cryptographic software Easy-to-follow tips for safer computing Unbiased and platform-independent coverage of encryption tools and techniques **Flow Cytometry First Principles** John Wiley & Sons Flow cytometry continually amazes scientists with its ever-expanding utility. Advances in flow cytometry have opened new directions in theoretical science, clinical diagnosis, and medical practice. The new edition of Flow Cytometry: First Principles provides a thorough update of this now classic text, reflecting innovations in the field while outlining the fundamental elements of instrumentation, sample preparation, and data analysis. Flow Cytometry: First Principles, Second Edition explains the basic principles of flow cytometry, surveying its primary scientific and clinical applications and highlighting state-of-the-art techniques at the frontiers of research. This edition contains extensive revisions of all chapters, including new discussions on fluorochrome and laser options for multicolor analysis, an additionalsection on apoptosis in the chapter on DNA, and new chapters onintracellular protein staining and cell sorting, including high-speed sorting and alternative sorting methods, as well as traditional technology. This essential resource: Assumes no prior knowledge of flow cytometry Progresses with an informal, engaging lecture style from simpleto more complex concepts Offers a clear introduction to new vocabulary, principles of instrumentation, and strategies for data analysis Emphasizes the theory relevant to all flow cytometry, with examples from a variety of clinical and scientific fields Flow Cytometry: First Principles, Second Edition provides scientists, clinicians, technologists, and students with the knowledge necessary for beginning the practice of flow cytometry and for understanding related literature. **Computer Organization and Design The Hardware/Software Interface, Third Edition** Elsevier This best selling text on computer organization has been thoroughly updated to reflect the newest technologies. Examples highlight the latest processor designs, benchmarking standards, languages and tools. As with previous editions, a MIPs processor is the core used to present the fundamentals of hardware technologies at work in a computer system. The book presents an entire MIPS instruction set—instruction by instruction—the fundamentals of assembly language, computer arithmetic, pipelining, memory hierarchies and I/O. A new aspect of the third edition is the explicit connection between program performance and CPU performance. The authors show how hardware and software components--such as the specific algorithm, programming language, compiler, ISA and processor implementation--impact program performance. Throughout the book a new feature focusing on program performance describes how to search for bottlenecks and improve performance in various parts of the system. The book digs deeper into the hardware/software interface, presenting a complete view of the function of the programming language and compiler--crucial for understanding computer organization. A CD provides a toolkit of simulators and compilers along with tutorials for using them. For instructor resources click on the grey "companion site" button found on the right side of this page. This new edition represents a major revision. New to this edition: * Entire Text has been updated to reflect new technology * 70% new exercises. * Includes a CD loaded with software, projects and exercises to support courses using a number of tools * A new interior design presents defined terms in the margin for quick reference * A new feature, "Understanding Program Performance" focuses on performance from the programmer's perspective * Two sets of exercises and solutions, "For More Practice" and "In More Depth," are included on the CD * "Check Yourself" questions help students check their understanding of major concepts * "Computers In the Real World" feature illustrates the diversity of uses for information technology *More detail below... **QuickTime for Java A Developer's Notebook** "O'Reilly Media, Inc." Java developers who need to add audio, video, or interactive media creation and playback to their applications find that QuickTime Java is a powerful toolkit, but one that's not easy to get into. This book offers the first real look at this important software and lets impatient early adopters focus on learning by doing. **Through the Language Glass Why the World Looks Different in Other Languages** Metropolitan Books A masterpiece of linguistics scholarship, at once erudite and entertaining, confronts the thorny question of how—and whether—culture shapes language and language, culture Linguistics has long shied away from claiming any link between a language and the culture of its speakers: too much simplistic (even bigoted) chatter about the romance of Italian and the goose-stepping orderliness of German has made serious thinkers wary of the entire subject. But now, acclaimed linguist Guy Deutscher has dared to reopen the issue. Can culture influence language—and vice versa? Can different languages lead their speakers to different thoughts? Could our experience of the world depend on whether our language has a word for "blue"? Challenging the consensus that the fundaments of language are hard-wired in our genes and thus universal, Deutscher argues that the answer to all these questions is—yes. In thrilling fashion, he takes us from Homer to Darwin, from Yale to the Amazon, from how to name the rainbow to why Russian water—a "she"—becomes a "he" once you dip a tea bag into her, demonstrating that language does in fact reflect culture in ways that are anything but trivial. Audacious, delightful, and field-changing, Through the Language Glass is a classic of intellectual discovery. **Contrast-Enhanced Mammography** Springer This book is a comprehensive guide to contrast-enhanced mammography (CEM), a novel advanced mammography technique using dual-energy mammography in combination with intravenous contrast administration in order to increase the diagnostic performance of digital mammography. Readers will find helpful information on the principles of CEM and indications for the technique. Detailed attention is devoted to image interpretation, with presentation of case examples and highlighting of pitfalls and artifacts. Other topics to be addressed include the establishment of a CEM program, the comparative merits of CEM and MRI, and the roles of CEM in screening populations and monitoring of response to neoadjuvant chemotherapy. CEM became commercially available in 2011 and is increasingly being used in clinical practice owing to its superiority over full-field digital mammography. This book will be an ideal source of knowledge and guidance for all who wish to start using the technique or to learn more about it. **Environmental Impacts of Microbial Insecticides Need and Methods for Risk Assessment** Springer Science & Business Media Biological pesticides are increasingly finding therr place in IPM and increasing numbers of products are making therr way to the marketplace. Particularly in China, Latin America and Australia, implementation is proceeding on a large scale. However, in the USA and Europe, registration procedures for insect pathogens to be used for insect control have been established that requrre low levels of risk, resulting in costs of retarding the implementation of microbial agents. This book provides a review of the state of the art of studies on the envrronmental impact of microbial insecticides. It originates from a Society for Invertebrate Pathology Microbial Control Division Symposium .. Assessment of envrronmental safety of biological insecticides", organised in collaboration with the EU-ERBIC research project (FAIR5-CT97-3489). This symposium was initiated by Heikki Hokkanen and Chris Lomer, and was held at the SIP Annual Meeting in 2001 in The Netherlands. The emphasis in this book is on large scale use of microbial agents for insect control, demonstrating how this use has been proceeding with minimal envrron mental impact. This book is intended to be of use to regulatory authorities in determining whether further studies in eertain areas are necessary and how to conduct them if needed, or whether sufficient information has been collected already to permit fuH registration of many of these biological control agents. **The Continental Army** Washington, D.C. : Center of Military History, United States Army A narrative analysis of the complex evolution of the Continental Army, with the lineages of the 177 individual units that comprised the Army, and fourteen charts depicting regimental organization. **A New Look at Canadian Indian Policy Respect the Collective, Promote the Individual** The Fraser Institute **Auditory Display 6th International Symposium, CMMR/ICAD 2009, Copenhagen, Denmark, May 18-22, 2009, Revised Papers** Springer This book constitutes the thoroughly refereed post-conference proceedings of the 6th International Symposium on Computer Music Modeling and Retrieval, CMMR 2009, held in Copenhagen, Denmark, in May 2009. The 25 revised full papers presented were specially reviewed and corrected for this proceedings volume. The conference's topics include auditory exploration of data via sonification and audification; real time monitoring of multivariate date; sound in immersive interfaces and teleoperation; perceptual issues in auditory display; sound in generalized computer interfaces; technologies supporting auditory display creation; data handling for auditory display systems; applications of auditory display. **Capital** Penguin UK The "forgotten" second volume of Capital, Marx's world-shaking analysis of economics, politics, and history, contains the vital discussion of commodity, the cornerstone to Marx's theories. **TCI The Business of Entertainment Technology & Design Byte Strategic Latency Unleashed The Role of Technology in a Revisionist Global Order and the Implications for Special Operations Forces** The world is being transformed physically and politically. Technology is the handmaiden of much of this change. But since the current sweep of global change is transforming the face of warfare, Special Operations Forces (SOF) must adapt to these circumstances. Fortunately, adaptation is in the SOF DNA. This book examines the changes affecting SOF and

offers possible solutions to the complexities that are challenging many long-held assumptions. The chapters explore what has changed, what stays the same, and what it all means for U.S. SOF. The authors are a mix of leading experts in technology, business, policy, intelligence, and geopolitics, partnered with experienced special operators who either cowrote the chapters or reviewed them to ensure accuracy and relevance for SOF. Our goal is to provide insights into the changes around us and generate ideas about how SOF can adapt and succeed in the emerging operational environment.