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Fred Terman at Stanford-C. Stewart Gillmor 2004 Terman was widely hailed as the magnet that drew talent together into what became known as Silicon Valley."--BOOK JACKET.

The New ICT Ecosystem-Martin Fransman 2010-03-25 The ICT sector is crucial as a driver of economic and social growth. Not only is it an important industry in its own right, but it also provides the communication and infrastructure without which modern economies could not function. How does this sector work? Why is it stronger in some countries than in others? What should companies, governments and regulators be doing to enhance its contribution? In The New ICT Ecosystem, Martin Fransman answers these and other questions by developing the idea of the ICT sector as an evolving ecosystem. He shows that some components of the ICT ecosystem, particularly the innovation process, work better in some countries and regions than in others. For example, the Internet

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content and applications layer of the ecosystem tends to work better in the US than in Europe or Asia. The analysis in this book enables policy makers and regulators to understand why some parts of the ICT ecosystem are underperforming and what can be done to enhance their performance. The previous edition of The New ICT Ecosystem won the 2008-10 Joseph Schumpeter Prize.

Readings in Computer Architecture-Mark D. Hill 2000 Offering a carefully reviewed selection of over 50 papers illustrating the breadth and depth of computer architecture, this text includes insightful introductions to guide readers through the primary sources.

The Accelerating Transport Innovation Revolution-George Giannopoulos, DIC, MSc, PhD 2019-04-15 The Accelerating Transport Innovation Revolution: A Global, Case Study-based Assessment of Current Experience, Cross-sectorial Effects and Socioeconomic Transformations, offers a comprehensive view of current state-of-the-art and practices around the world to create innovation on a revolutionary scale and connect research to commercial exploitation of its results. It offers a fascinating new model of the innovation process based on theories of biological ecosystems, general systems theory and basins of attraction (represented through space-time graphs well known in mathematics). Furthermore, it considers - through a number of dedicated chapters - key issues and elements of innovation ecosystems, such as: Causal Factors and system constraints affecting the development and sustainability of innovation ecosystems (Chapter 4); Review of innovation organization and governance in key countries and regions (Chapter 5); the role of technological "Spillovers" (Chapter 6); Collection and use of data for innovation monitoring and benchmarking (Chapter 7); Intellectual Property protection between competing ecosystems (Chapter 8); Economics of innovation (Chapter 9); Public and private sector involvement in Transport innovation creation (Chapter 10); the role of the individual entrepreneur - innovator in energizing change (Chapter 11). Finally, in Chapter 12, there is a thorough summary of key findings. This book uses a paradigmatic approach to augment the innovation ecosystem model of innovation that integrates beliefs and learning into the innovation ecosystems model. It therefore

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includes ten case studies from the U.S., Europe and Asia, detailing how innovation is created across continents and different ecosystems and what are the critical lessons to be learned. It does this, effectively, at five different levels of analysis i.e. the individual innovator / entrepreneur level, the organization level (government agency or company), the regional ecosystem level, the nation-state level and the global - systemic or international level. Each level of analysis, reveals unique features of the innovation landscape and the ten case studies allow the reader to assess when and where specific "enablers" are facilitating innovation especially on a revolutionary scale. The need for the book came from the realization that despite the billions of dollars spent on various research programs over the past 20 years (especially in the public sector), there have been few clear and tangible efforts directed at exploring how innovation production increasingly occurs and the critical factors necessary to sustain large-scale, revolutionary change as the future unfolds. Thus, a primary theme of the book is that understanding how research results translate into market innovation and implementation, especially understanding the nature of revolutionary innovation, is as important as the creation of innovations themselves. While the focus of the book is on Transportation, the concepts and recommendations presented apply to other fields too. Formulates and presents a workable and comprehensive new model of innovation Defines and analyzes many concepts and notions related to innovation, research and market implementation Examines the critical factors affecting innovation production and successful commercial implementation of research results Examines organizational models of coordination, governance, data collection, process analysis and use of intellectual property tools Includes recent, well-researched and documented case studies of successful innovation ecosystems across the world mainly - but not only - in the Transport field

Stanford- 2007

The Red Record (EasyRead Super Large 20pt Edition)-Ida B. Wells-Barnett 2008-11-07

11th Mediterranean Conference on Medical and Biological Engineering and Computing 2007-Tomaz Jarm 2007-11-12

Biomedical engineering brings together bright minds from diverse

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disciplines, ranging from engineering, physics, and computer science to biology and medicine. This book contains the proceedings of the 11th Mediterranean Conference on Medical and Biological Engineering and Computing, MEDICON 2007, held in Ljubljana, Slovenia, June 2007. It features relevant, up-to-date research in the area.

The Stanford Alumni Directory- 2004

International Who's who in Energy and Nuclear Sciences- 1983

On the Move to Meaningful Internet Systems: OTM 2008-Zahir Tari

2008-10-23 the second covering the issues of security in complex Internet-based information systems. Each of these ?ve

conferences encourages researcher to treat their respective topics

within a framework that incorporates jointly (a) theory, (b) conceptual design and development, and (c) applications, in

particular case studies and industrial solutions. Following and

expanding the model created in 2003, we again solicited and selected quality workshop proposals to complement the more

"archival" nature of the main conferences with research results in a number of selected and more "avant-

garde" areas related to the general topic of distributed computing. For-

stance, the so-called Semantic Web has given rise to several novel

research areas combining linguistics, information systems

technology, and artificial intelligence, such as the modeling of (legal) regulatory systems and the ubiquitous nature of their usage.

We were glad to see that in spite of On The Move switching sides of the

Atlantic, seven of our earlier successful workshops (notably AweSOMe, SWWS, ORM, On To Content, MONET, PerSys, RDDS) re-

appeared in 2008 with a third or even fourth edition, sometimes by alliance with other newly emerging wo-

shops, and that no fewer than seven brand-new independent workshops could be selected from proposals and hosted: ADI, COMBEK, DiSCo, IWSSA, QSI and

SEMELS. Workshop audiences productively mingled with each

other and with those of the main conferences, and there was

considerable overlap in authors. The OTM organizers are especially grateful for the leadership, diplomacy and competence of Dr. Pilar

Herrero in managing this complex and delicate process for the ?fth consecutive year.

When Affirmative Action Was White: An Untold History of Racial

Inequality in Twentieth-Century America-Ira Katznelson 2006-08-17
A groundbreaking work that exposes the twisted origins of affirmative action. In this "penetrating new analysis" (New York Times Book Review) Ira Katznelson fundamentally recasts our understanding of twentieth-century American history and demonstrates that all the key programs passed during the New Deal and Fair Deal era of the 1930s and 1940s were created in a deeply discriminatory manner. Through mechanisms designed by Southern Democrats that specifically excluded maids and farm workers, the gap between blacks and whites actually widened despite postwar prosperity. In the words of noted historian Eric Foner, "Katznelson's incisive book should change the terms of debate about affirmative action, and about the last seventy years of American history."
Stanford Bulletin- 2003

Sensor Networks for Sustainable Development-Mohammad Ilyas 2017-12-19
Recent advances in technology and manufacturing have made it possible to create small, powerful, energy-efficient, cost-effective sensor nodes for specialized telecommunication applications—nodes "smart" enough to be capable of adaptation, self-awareness, and self-organization. Sensor Networks for Sustainable Development examines sensor network technologies that increase the quality of human life and encourage societal progress with minimal effect on the earth's natural resources and environment. Organized as a collection of articles authored by leading experts in the field, this valuable reference captures the current state of the art and explores applications where sensor networks are used for sustainable development in: Agriculture Environment Energy Healthcare Transportation Disaster management Beneficial to designers and planners of emerging telecommunication networks, researchers in related industries, and students and academia seeking to learn about the impact of sensor networks on sustainable development, Sensor Networks for Sustainable Development provides scientific tutorials and technical information about smart sensor networks and their use in everything from remote patient monitoring to improving safety on the roadways and beyond.

Convex Optimization-Stephen Boyd 2004-03-08
Convex optimization problems arise frequently in many different fields. This book

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provides a comprehensive introduction to the subject, and shows in detail how such problems can be solved numerically with great efficiency. The book begins with the basic elements of convex sets and functions, and then describes various classes of convex optimization problems. Duality and approximation techniques are then covered, as are statistical estimation techniques. Various geometrical problems are then presented, and there is detailed discussion of unconstrained and constrained minimization problems, and interior-point methods. The focus of the book is on recognizing convex optimization problems and then finding the most appropriate technique for solving them. It contains many worked examples and homework exercises and will appeal to students, researchers and practitioners in fields such as engineering, computer science, mathematics, statistics, finance and economics.

Simple Rules-Donald Sull 2015-04-21 Outlines an approach to high-performance problem-solving and decision-making that draws on insights from survival guides, pop culture and other sources. Co-written by the award-winning author of *The Upside of Turbulence*. 75,000 first printing.

Number Theory for Computing-Song Y. Yan 2002-04-24 This book provides a good introduction to the classical elementary number theory and the modern algorithmic number theory, and their applications in computing and information technology, including computer systems design, cryptography and network security. In this second edition proofs of many theorems have been provided, further additions and corrections were made.

Department of Defense Sponsored Information Security Research-Department of Defense 2007-07-17 After September 11th, the Department of Defense (DoD) undertook a massive and classified research project to develop new security methods using technology in order to protect secret information from terrorist attacks. Written in language accessible to a general technical reader, this book examines the best methods for testing the vulnerabilities of networks and software that have been proven and tested during the past five years. An intriguing introductory section explains why traditional security techniques are no longer adequate and which new methods will meet particular corporate and industry network needs. Discusses software that automatically applies security.

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technologies when it recognizes suspicious activities, as opposed to people having to trigger the deployment of those same security technologies

Distributed Work-Pamela Hinds 2002 Multidisciplinary research on dynamics, problems, and potential of distributed work.

Technological advances and changes in the global economy are increasing the geographic distribution of work in industries as diverse as banking, wine production, and clothing design. Many workers communicate regularly with distant coworkers; some monitor and manipulate tools and objects at a distance. Work teams are spread across different cities or countries. Joint ventures and multiorganizational projects entail work in many locations. Two famous examples -- the Hudson Bay Company's seventeenth-century fur trading empire and the electronic community that created the original Linux computer operating system -- suggest that distributed work arrangements can be flexible, innovative, and highly successful. At the same time, distributed work complicates workers' professional and personal lives. Distributed work alters how people communicate and how they organize themselves and their work, and it changes the nature of employee-employer relationships. This book takes a multidisciplinary approach to the study of distributed work groups and organizations, the challenges inherent in distributed work, and ways to make distributed work more effective. Specific topics include division of labor, incentives, managing group members, facilitating interaction among distant workers, and monitoring performance. The final chapters focus on distributed work in one domain, collaborative scientific research. The contributors include psychologists, cognitive scientists, sociologists, anthropologists, historians, economists, and computer scientists.

Engineering Writing by Design-Edward J. Rothwell 2017-09-29

Engineers are smart people. Their work is important, which is why engineering material should be written as deliberately and carefully as it will be read. Engineering Writing by Design: Creating Formal Documents of Lasting Value demonstrates how effective writing can be achieved through engineering-based thinking. Based on the authors' combined experience as engineering educators, the book presents a novel approach to technical writing, positioning formal writing tasks as engineering design problems with requirements.

constraints, protocols, standards, and customers (readers) to satisfy. Specially crafted for busy engineers and engineering students, this quick-reading, conversational text: Describes how to avoid logical fallacies and use physical reasoning to catch mistakes in claims Covers the essentials of technical grammar and style as well as the elements of mathematical exposition Emphasizes the centrality of the target audience, and thus the need for clear and concise prose Engineering Writing by Design: Creating Formal Documents of Lasting Value addresses the specific combination of thinking and writing skills needed to succeed in modern engineering. Its mantra is: to write like an engineer, you must think like an engineer. Featuring illustrative examples, chapter summaries and exercises, quick-reference tables, and recommendations for further reading, this book is packed with valuable tips and information practicing and aspiring engineers need to become effective writers.

Theory and Phenomena of Metamaterials-Filippo Capolino 2017-12-19 Theory and Phenomena of Metamaterials offers an in-depth look at the theoretical background and basic properties of electromagnetic artificial materials, often called metamaterials. A volume in the Metamaterials Handbook, this book provides a comprehensive guide to working with metamaterials using topics presented in a concise review format along with numerous references. With contributions from leading researchers, this text covers all areas where artificial materials have been developed. Each chapter in the text features a concluding summary as well as various cross references to address a wide range of disciplines in a single volume.

Applications of Metamaterials-Filippo Capolino 2017-12-19 This book uses the first volume's exploration of theory, basic properties, and modeling topics to develop readers' understanding of applications and devices that are based on artificial materials. It explores a wide range of applications in fields including electronics, telecommunications, sensing, medical instrumentation, and data storage. The text also includes a practical user's guide and explores key areas in which artificial materials have developed. It includes experts' perspectives on current and future applications of metamaterials, to present a well-rounded view on state-of-the-art

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technologies.

Fundamentals of Logic Design-Charles H. Roth, Jr. 2013-03-01

Updated with modern coverage, a streamlined presentation, and excellent companion software, this seventh edition of FUNDAMENTALS OF LOGIC DESIGN achieves yet again an unmatched balance between theory and application. Authors Charles H. Roth, Jr. and Larry L. Kinney carefully present the theory that is necessary for understanding the fundamental concepts of logic design while not overwhelming students with the mathematics of switching theory. Divided into 20 easy-to-grasp study units, the book covers such fundamental concepts as Boolean algebra, logic gates design, flip-flops, and state machines. By combining flip-flops with networks of logic gates, students will learn to design counters, adders, sequence detectors, and simple digital systems. After covering the basics, this text presents modern design techniques using programmable logic devices and the VHDL hardware description language. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The Stanford Magazine- 1988

Lectures on the Fourier Transform and Its Applications-Brad G.

Osgood 2019-01-18 This book is derived from lecture notes for a course on Fourier analysis for engineering and science students at the advanced undergraduate or beginning graduate level. Beyond teaching specific topics and techniques—all of which are important in many areas of engineering and science—the author's goal is to help engineering and science students cultivate more advanced mathematical know-how and increase confidence in learning and using mathematics, as well as appreciate the coherence of the subject. He promises the readers a little magic on every page. The section headings are all recognizable to mathematicians, but the arrangement and emphasis are directed toward students from other disciplines. The material also serves as a foundation for advanced courses in signal processing and imaging. There are over 200 problems, many of which are oriented to applications, and a number use standard software. An unusual feature for courses meant for engineers is a more detailed and accessible treatment of distributions and the generalized Fourier transform. There is also

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more coverage of higher-dimensional phenomena than is found in most books at this level.

Wireless Communications-Andrea Goldsmith 2005-08-08 Wireless technology is a truly revolutionary paradigm shift, enabling multimedia communications between people and devices from any location. It also underpins exciting applications such as sensor networks, smart homes, telemedicine, and automated highways. This book provides a comprehensive introduction to the underlying theory, design techniques and analytical tools of wireless communications, focusing primarily on the core principles of wireless system design. The book begins with an overview of wireless systems and standards. The characteristics of the wireless channel are then described, including their fundamental capacity limits. Various modulation, coding, and signal processing schemes are then discussed in detail, including state-of-the-art adaptive modulation, multicarrier, spread spectrum, and multiple antenna techniques. The concluding chapters deal with multiuser communications, cellular system design, and ad-hoc network design. Design insights and tradeoffs are emphasized throughout the book. It contains many worked examples, over 200 figures, almost 300 homework exercises, over 700 references, and is an ideal textbook for students.

Inside Graduate Admissions-Julie R. Posselt 2016-01-11 Advanced degrees are necessary for careers that once required only a college education. Yet little has been written about who gets into grad school and why. Julie Posselt pulls back the curtain on this secret process, revealing how faculty evaluate applicants in top-ranked doctoral programs in the humanities, social sciences, and natural sciences.

Linear Controller Design-Stephen P. Boyd 1991

Network Information Theory-Abbas El Gamal 2011-12-08 This comprehensive treatment of network information theory and its applications provides the first unified coverage of both classical and recent results. With an approach that balances the introduction of new models and new coding techniques, readers are guided through Shannon's point-to-point information theory, single-hop networks, multihop networks, and extensions to distributed computing, secrecy, wireless communication, and networking. Elementary

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mathematical tools and techniques are used throughout, requiring only basic knowledge of probability, whilst unified proofs of coding theorems are based on a few simple lemmas, making the text accessible to newcomers. Key topics covered include successive cancellation and superposition coding, MIMO wireless communication, network coding, and cooperative relaying. Also covered are feedback and interactive communication, capacity approximations and scaling laws, and asynchronous and random access channels. This book is ideal for use in the classroom, for self-study, and as a reference for researchers and engineers in industry and academia.

The JPEG 2000 Suite-Peter Schelkens 2009-09-03 The JPEG 2000 Suite provides a comprehensive overview of the baseline JPEG 2000 standard and its extensions. The first part of the book sets out the core coding system, additions to the standard and reference software. The second part discusses the successful deployment of JPEG 2000 in application domains such as video surveillance, digital cinema, digital television, medical imaging, defence imaging, security, geographic imaging and remote sensing, digital culture imaging and 3D graphics. The book also presents implementation strategies accompanied by existing software and hardware solutions. Describes secure JPEG 2000 (JPSEC), interactivity protocols (JPIP), volumetric image data compression (JP3D) and image compression in wireless environments (JPWL), amongst others. Uses a structure which allows for easy cross-reference with the components of the standard. Sets out practical implementation examples and results. Examines strategies for future image compression techniques, including Advanced Image Coding and JPEG XR. Includes contributions from international specialists in industry and academia who have worked on the development of the JPEG 2000 standard. Additional material can be found at www.jpeg.org. The JPEG 2000 Suite is an excellent introduction to the JPEG 2000 standard and is of great appeal to practising electronics engineers, researchers, and hardware and software developers using and developing image coding techniques. Graduate students taking courses on image compression, digital archiving, and data storage techniques will also find the book useful, as will graphic designers, artists, and decision makers in

industries developing digital applications.

The Borderlands of Education-Michelle Madsen Camacho

2013-03-22 Why are there so few Latina engineers and what is the potential for change given demographic shifts of the Latino population? This interdisciplinary, mixed-methods approach offers a new paradigm for examining the crisis of Latinas in engineering (a field that remains 82% male), illuminating the nuanced and multiple exclusionary forces that shape the culture of engineering and its borderlands.

Advanced Cognitive Radio Network-Kosai Raof 2011-09-15 In

recent years, it was realized that Radio Cognitive Systems seems to be a real need in the near future evolution, especially because of the severe spectrum regulations and channel congestion problems.

Moreover high data rates become more and more necessary for normal professional needs or at home based users. Cognitive radio systems were first defined in the late of 1990s. The idea is to integrate a new concept of channel environmental sensing, followed by a knowledge based standard learning, which in return helps to identify free channel spectrum slots. These slots can be used by a third party user in a way to take advantage of the unused spectrum. This type of communication provides dynamic opportunistic algorithm for spectrum access. The new concept has to be adaptive and based on a reconfigurable hardware with a real time processing. Such cognitive radio systems can be also used in indoor wireless communications, where more and more wireless peripherals and tools are used in a limited space, and once again data packet congestion is a real problem. This book is written by specialists working in the field of telecommunication and signal processing. Various aspects of the radio cognitive systems are discussed with some applications and implementations such as software defined radios. The book is composed of seven chapters; as each chapter is written in a self-contained manner, the reader can use the book without any restrictive ordering of the chapters. At the end of the chapters there are valuable references that provide in depth coverage of the application...

Handbook of Cognitive Aging-Scott M. Hofer 2008-03-20 "Provides a unique perspective. I am particularly impressed with the sections on innovative design and methods to investigate cognitive aging and

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the integrative perspectives. None of the existing texts covers this material to the same level." —Donna J. La Voie, Saint Louis University "The emphasis on integrating the literature with theoretical and methodological innovations could have a far-reaching impact on the field." —Deb McGinnis, Oakland University

The Handbook of Cognitive Aging: Interdisciplinary Perspectives clarifies the differences in patterns and processes of cognitive aging. Along with a comprehensive review of current research, editors Scott M. Hofer and Duane F. Alwin provide a solid foundation for building a multidisciplinary agenda that will stimulate further rigorous research into these complex factors. Key Features Gathers the widest possible range of perspectives by including cognitive aging experts in various disciplines while maintaining a degree of unity across chapters Examines the limitations of the extant literature, particularly in research design and measurement, and offers new suggestions to guide future research Highlights the broad scope of the field with topics ranging from demography to development to neuroscience, offering the most complete coverage available on cognitive aging

Near-Capacity Multi-Functional MIMO Systems-Lajos Hanzo 2009-05-11 Providing an all-encompassing self-contained treatment of Near-Capacity Multi-Functional MIMO Systems , the book starts by categorizing the family of Multiple-Input Multiple-Output (MIMO) schemes as diversity techniques, multiplexing schemes, multiple access arrangements and beam-forming techniques. Sophisticated coherent and low-complexity non-coherent MIMO receivers dispensing with channel estimation are considered in both classic and cooperation-aided scenarios. It is demonstrated that in the presence of correlated shadow-fading, cooperation-assisted systems may be expected to outperform their non-cooperative counterparts. The book contains a 100-page chapter on the unified treatment of all block codes in the context of high-flexibility, cutting-edge irregular Linear Dispersion Codes (LDC), which approach the MIMO-capacity. The majority of the book's solutions are in the optimum sphere-packing frame-work. Sophisticated amalgam of five year's near-capacity MIMO research Detailed examination of wireless landscape, including the fields of channel coding, spacetime coding and turbo detection techniques Novel tool

of Extrinsic Information Transfer Charts (EXIT) used to address recent developments Material presented logically, allowing advanced readers to turn directly to any specific chapter of interest One of the only books to cover these subjects, giving equal weighting to each

Statistical Optics-Joseph W. Goodman 2015-04-20 This book discusses statistical methods that are useful for treating problems in modern optics, and the application of these methods to solving a variety of such problems This book covers a variety of statistical problems in optics, including both theory and applications. The text covers the necessary background in statistics, statistical properties of light waves of various types, the theory of partial coherence and its applications, imaging with partially coherent light, atmospheric degradations of images, and noise limitations in the detection of light. New topics have been introduced in the second edition, including: Analysis of the Vander Pol oscillator model of laser light Coverage on coherence tomography and coherence multiplexing of fiber sensors An expansion of the chapter on imaging with partially coherent light, including several new examples An expanded section on speckle and its properties New sections on the cross-spectrum and bispectrum techniques for obtaining images free from atmospheric distortions A new section on imaging through atmospheric turbulence using coherent light The addition of the effects of "read noise" to the discussions of limitations encountered in detecting very weak optical signals A number of new problems and many new references have been added Statistical Optics, Second Edition is written for researchers and engineering students interested in optics, physicists and chemists, as well as graduate level courses in a University Engineering or Physics Department. The Physics of Computing-Marilyn Wolf 2016-10-16 The Physics of Computing gives a foundational view of the physical principles underlying computers. Performance, power, thermal behavior, and reliability are all harder and harder to achieve as transistors shrink to nanometer scales. This book describes the physics of computing at all levels of abstraction from single gates to complete computer systems. It can be used as a course for juniors or seniors in computer engineering and electrical engineering, and can also be used to teach students in other scientific disciplines important

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concepts in computing. For electrical engineering, the book provides the fundamentals of computing that link core concepts to computing. For computer science, it provides foundations of key challenges such as power consumption, performance, and thermal. The book can also be used as a technical reference by professionals. Links fundamental physics to the key challenges in computer design, including memory wall, power wall, reliability Provides all of the background necessary to understand the physical underpinnings of key computing concepts Covers all the major physical phenomena in computing from transistors to systems, including logic, interconnect, memory, clocking, I/O

Do You Teach? Views on College Teaching-Hugh Hildreth Skilling 1969

User Centered Design for Medical Visualization-Dong, Feng 2008-05-30 "This book features a comprehensive review of advances in medical visualization and human-computer interaction. It investigates the human roles during a visualization process, specifically motivation-based design, user-based design, and perception-and-cognitive-based design. It also provides real-world examples and insight into the analytical and architectural aspects of user centered design"--Provided by publisher.

Parallel Computer Architecture-David E. Culler 1999 This book outlines a set of issues that are critical to all of parallel architecture--communication latency, communication bandwidth, and coordination of cooperative work (across modern designs). It describes the set of techniques available in hardware and in software to address each issues and explore how the various techniques interact.

Optics Education- 2004

Makers of the Microchip-Christophe Lécuyer 2010-09-03 The first years of the company that developed the microchip and created the model for a successful Silicon Valley start-up. In the first three and a half years of its existence, Fairchild Semiconductor developed, produced, and marketed the device that would become the fundamental building block of the digital world: the microchip.

Founded in 1957 by eight former employees of the Shockley Semiconductor Laboratory, Fairchild created the model for a successful Silicon Valley start-up: intense activity with a common

goal, close collaboration, and a quick path to the market (Fairchild's first device hit the market just ten months after the company's founding). Fairchild Semiconductor was one of the first companies financed by venture capital, and its success inspired the establishment of venture capital firms in the San Francisco Bay area. These firms would finance the explosive growth of Silicon Valley over the next several decades. This history of the early years of Fairchild Semiconductor examines the technological, business, and social dynamics behind its innovative products. The centerpiece of the book is a collection of documents, reproduced in facsimile, including the company's first prospectus; ideas, sketches, and plans for the company's products; and a notebook kept by cofounder Jay Last that records problems, schedules, and tasks discussed at weekly meetings. A historical overview, interpretive essays, and an introduction to semiconductor technology in the period accompany these primary documents.

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BIOGRAPHIES & HISTORY CHILDREN'S YOUNG ADULT
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