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Multimedia Communications Springer Science & Business Media
Public Technology Procurement and Innovation studies public technology procurement as an instrument of innovation policy. In the past few years, public technology procurement has been a relatively neglected topic in the theoretical and research literature on the economics of innovation. Similarly, preoccupation with `supply-side' measures has led policy-makers to avoid making very extensive use of this important `demand-side' instrument. These trends have been especially pronounced in the European Union. There, as this book will argue, existing legislation governing public procurement presents obstacles to the use of public technology procurement as a means of stimulating and supporting technological innovation. Recently, however, there has been a gradual re-awakening of practical interest in such measures among policy-makers in the EU and elsewhere. For these and other related measures, this volume aims to contribute to a serious reconsideration of public technology procurement from the complementary standpoints of innovation theory and innovation policy.
Moody's International Manual Rowman & Littlefield
Fully updated edition of the comprehensive, single-source reference on satellite technology and its applications Covering both the technology and its applications, Satellite Technology is a concise reference on satellites for commercial, scientific and military purposes. The book explains satellite technology fully, beginning by offering an introduction to the fundamentals, before covering orbits and trajectories, launch and in-orbit operations, hardware, communication techniques, multiple access techniques, and link design fundamentals. This new edition also includes comprehensive chapters on Satellite Networks and Satellite Technology – Emerging Trends. Providing a complete survey of applications, from remote sensing and military uses, to navigational and scientific applications, the authors also present an inclusive compendium on satellites and satellite launch vehicles. Filled with diagrams and illustrations,

this book serves as an ideal introduction for those new to the topic, as well as a reference point for professionals. Fully updated edition of the comprehensive, single-source reference on satellite technology and its applications - remote sensing, weather, navigation, scientific, and military - including new chapters on Satellite Networks and Satellite Technology – Emerging Trends Covers the full range of satellite applications in remote sensing, meteorology, the military, navigation and science, and communications, including satellite-to-under sea communication, satellite cell-phones, and global Xpress system of INMARSAT The cross-disciplinary coverage makes the book an essential reference book for professionals, R&D scientists and students at post graduate level Companion website provides a complete compendium on satellites and satellite launch vehicles An ideal introduction for Professionals and R&D scientists in the field. Engineering Students. Cross disciplinary information for engineers and technical managers.

Carbon Black Springer Nature
"Where this book is exceptional is that the reader will not just learn how LTE works but why it works" Adrian Scrase, ETSI Vice-President, International Partnership Projects Following on the success of the first edition, this book is fully updated, covering the latest additions to LTE and the key features of LTE-

Advanced. This book builds on the success of its predecessor, offering the same comprehensive system-level understanding built on explanations of the underlying theory, now expanded to include complete coverage of Release 9 and the developing specifications for LTE-Advanced. The book is a collaborative effort of more than 40 key experts representing over 20 companies actively participating in the development of LTE, as well as academia. The book highlights practical implications, illustrates the expected performance, and draws comparisons with the well-known WCDMA/HSPA standards. The authors not only pay special attention to the physical layer, giving an insight into the fundamental concepts of OFDMA-FDMA and MIMO, but also cover the higher protocol layers and system architecture to enable the reader to gain an overall understanding of the system. Key New Features: Comprehensively updated with the latest changes of the LTE Release 8 specifications, including improved coverage of Radio Resource Management RF aspects and performance requirements Provides detailed coverage of the new LTE Release 9 features, including: eMBMS, dual-layer beamforming, user equipment positioning, home eNodeBs / femtocells and pico cells and self-optimizing networks Evaluates the LTE system performance Introduces LTE-Advanced, explaining its context and motivation, as well as the key new features including: carrier aggregation, relaying, high-order MIMO, and Cooperative Multi-Point transmission (CoMP). Includes an accompanying website containing a complete list of acronyms related to LTE and LTE-Advanced, with a brief description

of each (http://www.wiley.com/go/sesia_theumts) This book is an invaluable reference for all research and development engineers involved in implementation of LTE or LTE-Advanced, as well as graduate and PhD students in wireless communications. Network operators, service providers and R&D managers will also find this book insightful.

Official Gazette of the United States Patent and Trademark Office Smashbooks
"This addition to the Model Jury Instructions series, published by the ABA Section of Litigation, provides clear and balanced instructions for presentation to juries in copyright, trademark and trade dress litigation. These models accurately and impartially present the elements and critical definitions of copyright, trademark and trade dress law in language that is understandable and familiar to the average juror. The book includes a CD-ROM of the jury instructions that allows for easy adaptation to particular cases or points. Chapter introductions give overviews of

the current state of the law, including the major recent cases in most jurisdictions, with discussions of the practical issues you might have to consider. Individual instructions are followed by commentary that includes discussion of the cases from which the instruction was derived, as well as how and when to adapt the instruction to particular cases, to the laws of particular states, to the requirements of particular jurisdictions, or in the light of inconsistent authority. Besides making it easy to present first-rate instructions, the models and supporting citations give you an excellent starting place from which to investigate the nuances of a particular jurisdiction. This book gives you the framework for preparing and trying your case, from analyzing the fact situation and planning strategy to preparing your final

argument."--Publisher's website.

Report of the Select Committee on U.S. National Security and Military/Commercial Concerns with the People's Republic of China Springer

An essential overview of satellite communications from the organization that sets the international standards Since their introduction in the mid-1960s, satellite communications have grown from a futuristic experiment into an integral part of today's "wired world." Satellite communications are at the core of a global, automatically switched telephony network. Assembled by the International Telecommunication Union--the international organization that sets the standards for this rapidly growing industry--the Handbook on Satellite Communications, Third Edition brings together basic facts about satellite communications as related to the fixed-satellite service (FSS). It covers the main principles, technologies, and operation of equipment in a tutorial form. Updated to include the latest technologies and information, the Third Edition provides both the standards and technical

information needed to implement and interact with satellite communication systems, including: * The components and basic characteristics of a satellite communication system * Regulatory considerations and system planning * SDH and ATM satellite transmissions * Analog and digital baseband signal processing and multiplexing * Carrier modulation techniques * Geostationary and non-geostationary systems * Interconnection of satellite and terrestrial networks * LEOS satellite networks and other recent developments As digital modulation and transmission replace analog techniques, and as satellites in non-geostationary and lower-altitude orbits open the way to new applications, satellite communications will continue to grow in use and importance. Everyone involved in the administration and operation of satellite communications will find this a crucial resource.

Structural Reforms, Productivity and Technological Change in Latin America MIT Press

Conflicts of interest pose special problems for the professions. Even the appearance of a conflict of interest can undermine essential

trust between professions and the public. This volume is an accessible guide to the ramifications and problems caused by conflicts of interest. It contains 15 new essays by scholars, and covers topics in law, medicine, journalism, engineering, financial services, and others.

Computer Science Handbook Oxford : Oxford University Press

The second edition of this reference provides comprehensive examinations of developments in the processing and applications of carbon black, including the use of new analytical tools such as scanning tunnelling microscopy, Fourier transform infrared spectroscopy and inverse gas chromatography.;Completely rewritten and updated by numerous experts in the field to reflect the enormous growth of the field since the publication of the previous edition, Carbon Black: discusses the mechanism of carbon black formation based on recent advances such as the discovery of fullerenes; elucidates micro- and macrostructure morphology and other physical characteristics; outlines the fractal geometry of carbon black as a new approach to characterization; reviews the

effect of carbon black on the electrical and thermal conductivity of filled polymers; delineates the applications of carbon black in elastomers, plastics, and zerographic toners; and surveys possible health consequences of exposure to carbon black.;With over 1200 literature citations, tables, and figures, this resource is intended for physical, polymer, surface and colloid chemists; chemical and plastics engineers; spectroscopists; materials scientists; occupational safety and health physicians; and upper-level undergraduate and graduate students in these disciplines.

Conflict of Interest in the Professions John Wiley & Sons

Computer and Communication Networks, Second Edition first establishes a solid foundation in basic networking concepts, TCP/IP schemes, wireless networking, Internet applications, and network security. Next, Mir delves into the mathematical analysis of networks, as well as advanced networking protocols. This fully-updated text thoroughly explains the modern technologies of networking and communications among computers, servers, routers, and other smart communication

devices, helping readers design cost-effective networks that meet emerging requirements. Offering uniquely balanced coverage of all key basic and advanced topics, it teaches through extensive, up-to-date case studies, 400 examples and exercises, and 250+ illustrative figures. Nader F. Mir provides the practical, scenario-based information many networking books lack, and offers a uniquely effective blend of theory and implementation. Drawing on extensive experience in the field, he introduces a wide spectrum of contemporary applications, and covers several key topics that competitive texts skim past or ignore completely, such as Software-Defined Networking (SDN) and Information-Centric Networking.

Corporate Finance United Nations Publications

Innovation in information and communication technology (ICT) fuels the growth of the global economy. How ICT markets evolve depends on politics and policy, and since the 1950s periodic overhauls of ICT policy have transformed competition and innovation. For example, in the 1980s and the 1990s a revolution in communication policy (the introduction of sweeping competition) also transformed the information market. Today,

the diffusion of Internet, wireless, and broadband technology, growing modularity in the design of technologies, distributed computing infrastructures, and rapidly changing business models signal another shift. This pathbreaking examination of ICT from a political economy perspective argues that continued rapid innovation and economic growth require new approaches in global governance that will reconcile diverse interests and enable competition to flourish. The authors (two of whom were architects of international ICT policy reforms in the 1990s) discuss this crucial turning point in both theoretical and practical terms.

Optics Routledge

This open access book offers a summary of the development of Digital Earth over the past twenty years. By reviewing the initial vision of Digital Earth, the evolution of that vision, the relevant key technologies, and the role of Digital Earth in helping people respond to global challenges, this publication reveals how and why Digital Earth is becoming vital for acquiring, processing, analysing and mining the rapidly growing volume of global data sets about the Earth. The main aspects of Digital Earth covered here include: Digital Earth platforms, remote sensing and navigation satellites, processing and visualizing geospatial

information, geospatial information infrastructures, big data and cloud computing, transformation and zooming, artificial intelligence, Internet of Things, and social media. Moreover, the book covers in detail the multi-layered/multi-faceted roles of Digital Earth in response to sustainable development goals, climate changes, and mitigating disasters, the applications of Digital Earth (such as digital city and digital heritage), the citizen science in support of Digital Earth, the economic value of Digital Earth, and so on. This book also reviews the regional and national development of Digital Earth around the world, and discusses the role and effect of education and ethics. Lastly, it concludes with a summary of the challenges and forecasts the future trends of Digital Earth. By sharing case studies and a broad range of general and scientific insights into the science and technology of Digital Earth, this book offers an essential introduction for an ever-growing international audience.

Optical Gyros and Their Application North Atlantic Treaty Organization Resear Rganization The Handbook includes chapters on all the major industry standards, quick reference tables, helpful appendices, plus a new glossary and list of acronyms. This practical handbook can stand alone or as a companion volume to DeCusatis: Fiber Optic Data Communication: Technological Advances and Trends (February 2002, ISBN:

0-12-207892-6), which was developed in tandem with this book. * Includes emerging technologies such as Infiniband, 10 Gigabit Ethernet, and MPLS Optical Switching * Describes leading edge commercial products, including LEAF and MetroCore fibers, dense wavelength multiplexing, and Small Form Factor transceiver packages * Covers all major industry standards, often written by the same people who designed the standards themselves * Includes an expanded listing of references on the World Wide Web, plus hard-to-find references for international, homologation, and type approval requirements * Convenient tables of key optical datacom parameters and glossary with hundreds of definitions and acronyms * Industry buzzwords explained, including SAN, NAS, and MAN networking * Datacom market analysis and future projections from industry leading forecasters

Official Gazette of the United States Patent and Trademark Office John Wiley & Sons
Cyber norms and other ways to regulate responsible state behavior in cyberspace is a fast-moving political and diplomatic field. The academic study of these processes is varied and interdisciplinary, but much of the literature has been organized according to discipline. Seeking to cross disciplinary boundaries, this timely book brings together researchers in fields ranging from international law, international relations, and political science to business studies and philosophy to explore the

theme of responsible state behavior in cyberspace. . Divided into three parts, Governing Cyberspace first looks at current debates in and about international law and diplomacy in cyberspace. How does international law regulate state behaviour and what are its limits? How do cyber superpowers like China and Russia shape their foreign policy in relation to cyberspace? The second focuses on power and governance. What is the role for international organisations like NATO or for substate actors like intelligence agencies? How do they adapt to the realities of cyberspace and digital conflict? How does the classic balance of power play out in cyberspace and how do different states position themselves? The third part takes a critical look at multistakeholder and corporate diplomacy. How do global tech companies shape their role as norm entrepreneurs in cyberspace, and how do their cyber diplomatic efforts relate to their corporate identity?

Computer and Communication Networks
Academic Press
Software professionals and companies live in a new world today. Increasingly complex systems need to be built faster and cheaper. While many of the est-lished approaches in software quality are still valid, the software quality c- munity is going through a paradigm shift that requires a re-assessment of our current method and tool portfolio, as well as creating new and more e?ective solutions. We have selected two themes for this conference to highlight this paradigm shift. Our ?rst theme, " production of attractive and reliable software at Internet speed" sums up the dilemma many software organisations face. In order to be competitive, software should contain advanced features and run reliably – yet it should be developed quickly and cost e?ectively for the right market window. Finding the right balance between these objectives is a critical question that will determine business success in the years to come. Our second theme, " production of software with a dynamic partnership n- work" highlights the current trend of using partnerships and subcontractors as integral players in the software development process. Partnerships sometimes need to be created quickly to respond to a market opportunity, yet the costs and speed of cooperation must be competitive. Di?erent companies have di?erent processes, quality tools and cultures, yet they should cooperate seamlessly for the best result.

Designing and Implementing IP/MPLS-Based Ethernet Layer 2 VPN Services Pearson Education India
Practical approach to software measurement
Contains hands-on industry experiences

Recommender Systems Handbook CRC Press
Set up and maintain your own cloud-based Infrastructure as a Service (IaaS) using OpenStackAbout This Book • Build and manage a cloud environment using just four virtual machines • Get to grips with mandatory as well as optional OpenStack components and know how they work together • Leverage your cloud environment to provide Infrastructure as a Service (IaaS) with this practical, step-by-step guideWho This Book Is ForThis book is targeted at all aspiring administrators, architects, or students who want to build cloud environments using Openstack. Knowledge of IaaS or cloud computing is recommended.What You Will Learn • Get an introduction to OpenStack and its components • Authenticate and authorize the cloud environment using Keystone • Store and retrieve data and images using storage components such as Cinder, Swift, and Glance • Use Nova to build a Cloud Computing fabric controller • Abstract technology-agnostic networks using the Neutron network component • Gain an understanding of optional components such as Ceilometer, Trove, Ironic, Sahara, Barbican, Zaqar, Designate, Manila, and many more • See how all of the OpenStack components collaborate to provide IaaS to users • Create a production-grade OpenStack and automate your OpenStack CloudIn DetailOpenStack is a free and open source cloud computing platform that is rapidly gaining popularity in Enterprise data centres. It is a scalable operating system

and is used to build private and public clouds. It is imperative for all the aspiring cloud administrators to possess OpenStack skills if they want to succeed in the cloud-led IT infrastructure space.This book will help you gain a clearer understanding of OpenStack's components and their interaction with each other to build a cloud environment. You will learn to deploy a self-service based cloud using just four virtual machines and standard networking.You begin with an introduction on the basics of cloud computing. This is followed by a brief look into the need for authentication and authorization, the different aspects of dashboards, cloud computing fabric controllers, along with "Networking as a Service" and "Software Defined Networking." Then, you will focus on installing, configuring, and troubleshooting different architectures such as Keystone, Horizon, Nova, Neutron, Cinder, Swift, and Glance. Furthermore, you will see how all of the OpenStack components come together in providing IaaS to users. Finally, you will take your OpenStack cloud to the next level by integrating it with other IT ecosystem elements before automation.By the end of this book, you will be proficient with the fundamentals and application of OpenStack.Style and approachThis is a practical step-by-step guide comprising of installation prerequisites and basic troubleshooting instructions to help you build an error-free OpenStack cloud easily.

Handbook of Fiber Optic Data Communication John Wiley & Sons
Written by one of the field's leading experts, this landmark reference presents a thorough system analysis of the fiber-optic gyroscope (FOG), describing the concepts that have emerged as the preferred solutions for obtaining a practical device. This book's first edition was published in the early 1990's. If the basic design rules of the FOG have remained unchanged, the technology has certainly matured, and the expectations presented in the first edition have been largely exceeded. This second edition is updated throughout, featuring new content on Allan variance; testing with optical coherence domain polarimetry; the Shupe effect; and rare-Earth doped fiber ASE sources. In addition, brand new comprehensive appendixes cover the optics, single-mode fiber optics, and integrated optics necessary to understand the fiber gyro and provide an appropriate vocabulary for communicating with electronic component designers.

Managing Information Technology John Wiley & Sons
The rapid advances and industry demands for networked delivery of information and pictures through computer networks and cable television has created a need for new techniques and standards for the packaging and delivery of digital information. Multimedia Communications presents the latest information from industry and academic experts on all standards, methods and protocols. Internet protocols for wireless communications, transcoding of Internet multimedia for universal access, ATM and ISDN chapters, videoconferencing standards, speech and audio coding standards, multi-casting and image compression techniques are included. Latest Internet protocols for wireless communications Transcoding of Internet multimedia for universal access ATM and ISDN chapters Videoconferencing standards Speech and audio coding standards Multi-casting Latest image compression techniques

Governing Cyberspace John Wiley & Sons
A Comprehensive, Thorough Introduction to High-Speed Networking Technologies and Protocols Network Infrastructure and Architecture: Designing High-Availability Networks takes a unique approach to the subject by covering the ideas underlying networks, the architecture of the

network elements, and the implementation of these elements in optical and VLSI technologies. Additionally, it focuses on areas not widely covered in existing books: physical transport and switching, the process and technique of building networking hardware, and new technologies being deployed in the marketplace, such as Metro Wave Division Multiplexing (MWDM), Resilient Packet Rings (RPR), Optical Ethernet, and more. Divided into five succinct parts, the book covers: Optical transmission Networking protocols VLSI chips Data switching Networking elements and design Complete with case studies, examples, and exercises throughout, the book is complemented with chapter goals, summaries, and lists of key points to aid readers in grasping the material presented. Network Infrastructure and Architecture offers professionals, advanced undergraduates, and graduate students a fresh view on high-speed networking from the physical layer perspective.

Network Infrastructure and Architecture Pearson Education

For an accessible and comprehensive survey of telecommunications and data communications technologies and services, consult the Telecommunications and Data Communications Handbook, which includes information on origins, evolution and meaningful contemporary applications. Find discussions of technologies set in context, with details on fiber optics, cellular radio, digital carrier systems, TCP/IP, and the Internet. Explore topics like Voice over Internet Protocol (VoIP); 802.16 & WiMAX; Passive Optical Network (PON); 802.11g & Multiple Input Multiple Output (MIMO) in this easily accessible guide without the burden of technical jargon.

3DL 00484 AAAA Elsevier

A guide to designing and implementing VPLS services over an IP/MPLS switched service provider backbone Today's communication providers are looking for convenience, simplicity, and flexible bandwidth across wide area networks-but with the quality of service and control that is critical for business networking applications like video, voice and data. Carrier Ethernet VPN services based on VPLS makes this a reality. Virtual Private LAN Service (VPLS) is a pseudowire (PW) based, multipoint-to-multipoint layer 2 Ethernet VPN service provided by services providers By deploying a VPLS service to customers, the operator can focus on providing high throughput, highly available Ethernet bridging services and leave the layer 3 routing decision up to the customer. Virtual Private LAN Services (VPLS) is quickly becoming the number one choice for many enterprises and service providers to deploy data communication networks. Alcatel-Lucent VPLS solution enables service providers to offer enterprise customers the operational cost benefits of Ethernet with the predictable QoS characteristics of MPLS. Items Covered: Building Converged Service Networks with IP/MPLS VPN Technology IP/MPLS VPN Multi-Service Network Overview Using MPLS Label Switched Paths as Service Transport Tunnels Routing Protocol Traffi c Engineering and CSPF RSVP-TE Protocol MPLS Resiliency — Secondary LSP MPLS Resiliency — RSVP-TE LSP Fast Reroute Label Distribution Protocol IP/MPLS VPN Service Routing Architecture Virtual Leased Line Services Virtual Private LAN Service Hierarchical VPLS High Availability in an IP/MPLS VPN Network VLL Service Resiliency VPLS Service Resiliency VPLS BGP Auto-Discovery PBB-VPLS OAM in a VPLS Service Network