

## Remote Carrier

Includes annual report of its council (1941-48, in pt. 1).

Vols. for 1970-79 include an annual special issue called IEE reviews.

How can you make multivendor services work smoothly on today's complex networks? This practical book shows you how to deploy a large portfolio of multivendor Multiprotocol Label Switching (MPLS) services on networks, down to the configuration level. You'll learn where Juniper Network's Junos, Cisco's IOS XR, and OpenContrail, interoperate and where they don't. Two network and cloud professionals from Juniper describe how MPLS technologies and applications have rapidly evolved through services and architectures such as Ethernet VPNs, Network Function Virtualization, Seamless MPLS, Egress Protection, External Path Computation, and more. This book contains no vendor bias or corporate messages, just solid information on how to get a multivendor network to function optimally. Topics include: Introduction to MPLS and Software-Defined Networking (SDN) The four MPLS Builders (LDP, RSVP-TE, IGP SPRING, and BGP) Layer 3 unicast and multicast MPLS services, Layer 2 VPN, VPLS, and Ethernet VPN Inter-domain MPLS Services Underlay and overlay architectures: data centers, NVO, and NFV Centralized Traffic Engineering and TE bandwidth reservations Scaling MPLS transport and services Transit fast restoration based on the IGP and RSVP-TE FIB optimization and egress service for fast restoration

TL has developed the new system for remote frequency calibrations by using the GPS carrier-phase observation. Remote sites can obtain the stability and accuracy of their frequency bases and the traceability to the TL frequency standard through the system. Since the GPS carrier-phase observation is more precise than the pseudorange measurement, we use it to estimate the frequency performance of a remote frequency source with respect to the TL frequency standard. Our system contains the master site installed at TL and the remote site installed at the customer. In the remote site, the signal from the remote frequency base is fed into the GPS receiver to replace its internal frequency. Hence, the frequency offset with respect to the GPS satellite clock can be obtained by performing the time difference (differences between two epochs) on carrier-phase observations. Under this circumstance, our system is able to monitor frequency performance at the real-time processing. At the master site, we set up the same GPS receiver at TL and performed the carrier-phase single difference (differences between two receivers at TL and the remote site) and time difference at the post processing. This extra system option can provide the traceability to TL and better system uncertainty. The data of remote sites can be sent to TL through the PSTN (Public Switched Telephone Network) or the Internet. We did some tests to verify the calibration system and the distance is about 270 km between the remote site and TL. In fact, the whole system is good to calibrate and monitor the frequency of the remote oscillator. The system stability is about  $2 \times 10^{11}$  per second and  $6 \times 10^{-14}$  per day. Now, we have already installed the calibration system at the customers' sites, and provided calibration reports to them.

Includes the Society's list of officers, members, and associates.

Sophie Scholten describes the development of carrier sanctions regimes in the

Netherlands and the United Kingdom, from the 1980s and assesses the effects of carrier sanctions policies on relationships between the actors involved: immigration authorities, private carriers and passengers.

Natural Hazards - Risk, Exposure, Response, and Resilience demonstrates advanced techniques to measure risks, exposures, responses, and solutions to hazards in an array of communities. Eleven original research reports by international scholars on hazard assessment and management are organized into four sections: studies assessing risk using in-depth modeling and technological detection to provide insight into problems associated with earthquakes, torrential rains, and nuclear power plant safety; studies revealing the spatial distributions of exposure and impacts from an assortment of hazards; studies examining human response to increased awareness of the patterns of hazard; and a study demonstrating assessment of resilience of sociotechnological systems to natural hazards. This volume contributes new conceptual and practical commentaries to assess, mitigate, and plan for disasters.

This practical new resource gives you a comprehensive understanding of the design and deployment of transmission networks for wireless applications. From principles and design, to equipment procurement, project management, testing, and operation, it's a practical, hands-on engineering guide with numerous real-life examples of turn-key operations in the wireless networking industry. This book, written for both technical and non-technical professionals, helps you deal with the costs and difficulties involved in setting up the local access with technologies that are still in the evolutionary stage. Issues involved in the deployment of various transmission technologies, and their impact on the overall wireless network topology are discussed. Strategy and approach to transmission network planning, design and deployment are explored. The book offers practical guidelines and advice derived from the author's own experience on projects worldwide. You gain a solid grounding in third generation wireless networks with increased capacity requirements, while learning all about packet data architecture, and how it will impact future transmission network design and deployment.

Spoken language communication is arguably the most important activity that distinguishes humans from nonhuman species. While many animal species communicate and exchange information using sound, humans are unique in the complexity of the information that can be conveyed using speech, and in the range of ideas, thoughts and emotions that can be expressed. Despite the importance of speech communication for the entire structure of human society, there are many aspects of this process that are not fully understood. One problem is that research on speech and language is typically carried out by different groups of scientists working on separate aspects of the underlying functional and neural systems. On the one hand, research from an auditory perspective focuses on the acoustical properties of speech sounds, their representation in the auditory system, and how that representation is used to

extract phonetic information. On the other hand, research from psycholinguistic perspectives examines the processes by which representations of meaning are extracted from the acoustic-phonetic sequence, and how these are linked to the construction of higher-level linguistic interpretation in terms of sentences and discourse. Till now, there has been relatively little interaction between speech researchers from these two groups, in spite of a dramatic expansion in recent years of research into the neural bases of auditory and linguistic functions. This book bridges the gap between these two lines of research, recognising that both have the same aims in understanding how the motor gestures of a speaker are transformed to sounds and how those are mapped onto meaning in the comprehension of spoken language. It presents the work of leading researchers specializing in a wide range of topics within speech perception and language processing - along with contributions from key researchers in neuroanatomy and neuro-imaging. This important new work cuts through the traditional boundaries and fosters crossdisciplinary interactions in this important and rapidly developing area of the biological and cognitive sciences.

A message from a speaker to a listener has to travel a very long way, from an intention on the part of the former, via an acoustic signal, through the transducer stages of the peripheral auditory system. The present book is about the listener. It consists of 35 papers by researchers from a limited number of related fields between the auditory periphery and word recognition, who met in 1991.

Official Gazette of the United States Patent and Trademark Office Patents Remote Control Carrier Systems in Two-way Closed-circuit Educational Television Natural Hazards Risk, Exposure, Response, and Resilience BoD – Books on Demand

Extensively examining IP telephony from the service provider's perspective, this book addresses the problems and possibilities associated with the future of telecom transport. Answering the crucial question How can established and emerging carriers leverage IP-telephony service?, this report presents a valuable compilation of the latest research and most provocative insight from a broad range of industry professionals. Here, service providers will find in-depth analysis of the issues that must be resolved before IP telephony can achieve carrier-class status.

This volume contains the proceedings of the NATO Advanced Study Institute on "Picture Archiving and Communication Systems (PACS) in Medicine" held in Evian, France, October 14- 26, 1990. The program committee of the institute consisted of H.K. Huang (Director), Osman Ratib, Albert Bakker, and Gerd Witte. This institute brought together approximately 90 participants from 15 countries. These proceedings are the accumulation of eight years of research and development results in PACS by various dedicated groups throughout the world. The purpose of this institute was to review the most recent technology available for PACS and some clinical results. The readers should notice the remarkable advances in this field by comparing the contents in these proceedings with those in a previous institute on "Pictorial Information Systems in Medicine" held August 27 - September 7, 1984 in Braunlage/Harz, Federal Republic of Germany, and published as Vol. 19 in this series. The institute was organized according to four categories: PACS components and system integration, PACS and related research in various countries and manufacturing companies, clinical experience and research support, and participants' scientific communications. In PACS components,

we included image acquisition, workstations, data storage and networking. In system integration, topics on interfaces between Hospital Information System (HIS), Radiology Information System (RIS) and PACS, clinical reports, the ACR/NEMA standard, databases, reliability, and system integration were discussed. This lecture series emphasized the technical detail and "how to" aspects.

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