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Navigating Network Complexity is the first comprehensive guide to managing the deployment and operational complexity associated with today's large scale networks. From start to finish, Navigating Network Complexity helps network professionals get past the hype associated with SDN, NFV, and other new control planes, assess their true impact, and gain more of their benefits with fewer problems.

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In this chapter from Navigating Network Complexity: Next-generation routing with SDN, service virtualization, and service chaining , the authors begin by examining some methods proposed to measure network complexity, and then consider ordered versus unordered complexity.

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Design your networks to successfully manage their growing complexity Network professionals have often been told that today's modern control planes

would simplify their networks. The opposite has happened: Technologies like SDN and NFV, although immensely valuable, are exacerbating complexity instead of solving it. Navigating Network Complexity is the first comprehensive guide to managing this complexity in both deployment and day-to-day operations. Russ White and Jeff Tantsura introduce modern complexity theory from the standpoint of the working network engineer, helping you apply it to the practical problems you face every day. Avoiding complex mathematical models, they show how to characterize network complexity, so you can understand it and control it. The authors examine specific techniques and technologies associated with network control planes, including SDNs, fast reroute, segment routing, service chaining, and cloud computing. They reveal how each of these affects network design and complexity and help you anticipate causes of failure in highly complex systems.

Master Modern Networking by Understanding and Solving Real Problems Computer Networking Problems and Solutions offers a new approach to understanding networking that not only illuminates current systems but prepares readers for whatever comes next. Its problem-solving approach reveals why modern computer networks and protocols are designed as they are, by explaining the problems any protocol or system must overcome, considering common solutions, and showing how those solutions have been implemented in new and mature protocols. Part I considers data transport (the data plane). Part II covers protocols used to discover and use topology and reachability information (the control plane). Part III considers several common network designs and architectures, including data center fabrics, MPLS cores, and modern Software-Defined Wide Area Networks (SD-WAN). Principles that underlie technologies such as Software Defined Networks (SDNs) are considered throughout, as solutions to problems faced by all networking technologies. This guide is ideal for beginning network engineers, students of computer networking, and experienced engineers seeking a deeper understanding of the technologies they use every day. Whatever your background, this book will help you quickly recognize problems and solutions that constantly recur, and apply this knowledge to new technologies and environments. Coverage Includes · Data and networking transport · Lower- and higher-level transports and interlayer discovery · Packet switching · Quality of Service (QoS) · Virtualized networks and services · Network topology discovery · Unicast loop free routing · Reacting to topology changes · Distance vector control planes, link state, and path vector control · Control plane policies and centralization · Failure domains · Securing networks and transport · Network design patterns · Redundancy and resiliency · Troubleshooting · Network disaggregation · Automating network management · Cloud computing · Networking the Internet of Things (IoT) · Emerging trends and technologies

This book gathers high-quality, peer-reviewed research papers presented at the Second International Conference on Computer Science, Engineering and Education Applications (ICCSEEA2019), held in Kiev, Ukraine on 26–27 January 2019, and jointly organized by the National Technical University of Ukraine 〚Igor Sikorsky Kyiv Polytechnic Institute〛 and the International Research Association of Modern Education and Computer Science. The papers discuss state-of-the-art topics and advances in computer science; neural networks; pattern recognition; engineering techniques; genetic coding systems; deep learning and its medical applications; and knowledge representation and its applications in education. Given its scope, the book offers an excellent resource for researchers, engineers, management practitioners, and graduate and undergraduate students interested in computer science and its applications in engineering and education.

Satellite Communications and Navigation Systems publishes the proceedings of the 2006 Tyrrhenian International Workshop on Digital Communications.

The book focuses on the integration of communication and navigation systems in satellites.

9+ Hours of Video Instruction Large Scale Network Design LiveLessons takes you through the concepts behind stable, scalable, elegant network design, including modularity, resilience, layering, and security principles. This livelesson will focus on traditional distributed link state, distance vector, and path vector routing protocols, as well as the basic principles of centralized control planes (such as OpenFlow). A special point will be made of sorting out the relationship between policy and reachability, and where they can best be managed in a large scale network. This video begins with an examination of basic network design principles, including an examination of modularization, hierarchy, summarization, aggregation, and resilience. More advanced foundational topics are then considered, such as an overview of network complexity, network models, and policy from within the context of the control plane. After this, the series will work through design using each of the distributed control planes, including OSPF, IS-IS, EIGRP, and BGP, on several network topologies to provide practical knowledge of actual deployment in real networks. The following section of this livelesson will consider the tradeoffs around programmable networks, including convergence, stability, and other factors. Finally, advanced topics, such as fast convergence, will be considered in detail, from principle to application in each protocol. About the Instructors Russ White has more than 20 years of experience in designing, deploying, breaking, and troubleshooting large-scale networks. Across that time, he has co-authored more than 40 software patents, has spoken at venues throughout the world, has participated in the development of several internet standards, has helped develop the CCDE and the CCAr, and has worked in Internet governance with the ISOC. Russ is currently a member of the Artchitecture Team at LinkedIn, where he works on next generation data center designs, complexity, security, and privacy. His most recent books are¬⅃ The Art of Network Architecture ¬⅃and¬⅃ Navigating Network Complexity . Russ holds several degrees and industry certifications, including MSIT Capella University, MACM Shepherds Theological Seminary, PhD in progress from Southeastern Theological Seminary CCIE #2635, CCDE 2007:001, and CCAr. Alvaro Retana , CCIE No. 1609, is currently a Development Test Engineer in the Large-Scale Switching and Routing Team, where he works on advanced features in...

The Art of Network Architecture Business-Driven Design The business-centered, business-driven guide to architecting and evolving networks The Art of Network Architecture is the first book that places business needs and capabilities at the center of the process of architecting and evolving networks. Two leading enterprise network architects help you craft solutions that are fully aligned with business strategy, smoothly accommodate change, and maximize future flexibility. Russ White and Denise Donohue guide network designers in asking and answering the crucial questions that lead to elegant, high-value solutions. Carefully blending business and technical concerns, they show how to optimize all network interactions involving flow, time, and people. The authors review important links between business requirements and network design, helping you capture the information you need to design effectively. They introduce today⅃s most useful models and frameworks, fully addressing modularity, resilience, security, and management. Next, they drill down into network structure and topology, covering virtualization, overlays, modern routing choices, and highly complex network environments. In the final section, the authors integrate all these ideas to consider four realistic design challenges: user mobility, cloud services, Software Defined Networking (SDN), and today⅃s radically new data center environments. ⅃ Understand how your choices of technologies and design paradigms will impact your business ⅃ Customize designs to improve workflows, support BYOD, and ensure business continuity ⅃ Use modularity, simplicity, and network management to prepare for rapid change ⅃ Build resilience by addressing human factors and redundancy ⅃ Design for security, hardening networks without making them brittle ⅃ Minimize network management pain, and maximize gain ⅃ Compare topologies and their tradeoffs ⅃ Consider the implications of network virtualization, and walk through an MPLS-based L3VPN example ⅃ Choose routing protocols in the context of business and IT requirements ⅃ Maximize

mobility via ILNP, LISP, Mobile IP, host routing, MANET, and/or DDNS ▯ Learn about the challenges of removing and changing services hosted in cloud environments ▯ Understand the opportunities and risks presented by SDNs ▯ Effectively design data center control planes and topologies

The TransNav 2013 Symposium held at the Gdynia Maritime University, Poland in June 2013 has brought together a wide range of participants from all over the world. The program has offered a variety of contributions, allowing to look at many aspects of the navigational safety from various different points of view. Topics presented and discussed at th

Computer networks rely on many forms of abstraction to scale'Äìindeed, to operate at all. While at least some of this abstraction is visible, such as route aggregation and flooding domain boundary summarization, much of it is hidden in unexpected places, such as in the logical construction of a network device, in the operation of BGP route reflectors, and in the data plane protocol stack. Abstraction in Computer Networks LiveLessons considers abstraction in theory and practice across many of the places it is used in building network devices, network software, and networks. Tradeoffs and common problems are considered, and the relationship between abstraction and complexity is discussed. Viewers learn how to think about what abstraction hides, and why it is important to hide each of these things. They also learn how to look in unexpected places for abstraction, how to think about leaky abstractions, and how Keith's Law and the first corollary to Keith's Law impact abstraction, including unintended consequences. Abstraction also relates to the State/Optimization/Surface tradeoff triad, so a section of this LiveLesson considers that tradeoff and how abstraction controls the speed and amount of state, impacts the depth and breadth of interaction surfaces, and reduces optimization. About the Instructor Russ White has more than 25 years of experience in designing, deploying, breaking, and troubleshooting large-scale networks. In that time, he has co-authored more than 40 software patents, has spoken at venues throughout the world, has participated in the development of several Internet standards, has helped develop the CCDE and the CCAr, and has worked in Internet governance with the ISOC. Russ is currently a member of the artchitecture team at LinkedIn, where he works on next-generation data center designs, complexity, security, and privacy. His most recent books are The Art of Network Architecture , Navigating Network Complexity , and Problems and Solutions in Network Engineering . MSIT Capella University, MACM Shepherds Theological Seminary, PhD in progress from Southeastern Theological Seminary CCIE No. 2635, CCDE 2007:001, CCAr Skill Level Beginner-Intermediate strong>Learn How To Find and understand abstraction, including hidden abstractions, in a network Find and understand the tradeoffs between abstraction, complexity, understandability, and network optimization Understand the relationship between Keith's Law, the first corollary to Keith's ...

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