SURVIVABLE

Algorithms for Diverse Routing

Ramesh Bhandari



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Survivable Networks Algorithms For Diverse Routing

Luis Velasco, Marc Ruiz

Survivable Networks Algorithms For Diverse Routing:

Survivable Networks Ramesh Bhandari,1999 Survivable Networks Algorithms for Diverse Routing provides algorithms for diverse routing to enhance the survivability of a network It considers the common mesh type network and describes in detail the construction of physically disjoint paths algorithms for diverse routing The algorithms are developed in a systematic manner starting with shortest path algorithms appropriate for disjoint paths construction Key features of the algorithms are optimality and simplicity Although the algorithms have been developed for survivability of communication networks they are in a generic form and thus applicable in other scientific and technical disciplines to problems that can be modeled as a network A notable highlight of this book is the consideration of real life telecommunication networks in detail Such networks are described not only by nodes and links but also by the actual physical elements called span nodes and spans The sharing of spans the actual physical links by the network logical links complicates the network requiring new algorithms This book is the first one to provide algorithms for such networks Survivable Networks Algorithms for Diverse Routing is a comprehensive work on physically disjoint paths algorithms It is an invaluable resource and reference for practicing network designers and planners researchers professionals instructors students and others working in computer networking telecommunications and related fields Survivability and Traffic Grooming in WDM Optical Networks Arun Somani, 2006-01-19 The advent of fiber optic transmission systems and wavelength division multiplexing WDM have led to a dramatic increase in the usable bandwidth of single fiber systems. This book provides detailed coverage of survivability dealing with the risk of losing large volumes of traffic data due to a failure of a node or a single fiber span and traffic grooming managing the increased complexity of smaller user requests over high capacity data pipes both of which are key issues in modern optical networks A framework is developed to deal with these problems in wide area networks where the topology used to service various high bandwidth but still small in relation to the capacity of the fiber systems evolves toward making use of a general mesh Effective solutions exploiting complex optimization techniques and heuristic methods are presented to keep network problems tractable Newer networking technologies and efficient design methodologies are also described Survivable Optical WDM Networks Canhui (Sam) Ou, Biswanath Mukherjee, 2010-07-19 Survivable Optical WDM Networks investigates different approaches for designing and operating an optical network with the objectives that 1 more connections can be carried by a given network leading to more revenue and 2 connections can recover faster in case of failures leading to better services Different networks wavelength routed WDM networks wavelength routed WDM networks with sub wavelength granularity grooming and data over next generation SONET SDH over WDM networks are covered Different approaches are proposed to explore every aspect of a protection scheme such as 1 Protection granularity a At wavelength granularity b At sub wavelength granularity 2 Protection entity a Path protection b Sub path protection c Segment protection 3 Routing a Single path routing b Multi path routing Tradeoffs between different objectives e g resource

efficiency vs recovery time are explored and practical approaches are proposed and analyzed **Resilient Routing in Communication Networks** Jacek Rak, 2024-09-16 This practically focused monograph addresses the latest issues of resilient routing in networked systems It consists of three parts and offers an in depth introduction to the resilience of networked systems Part I a detailed description of schemes of resilient routing Part II and examples of the application of resilience mechanisms in selected communication scenarios Part III Topics and features presents the essentials of network resilience highlights the main causes of network node and link failures elaborates on the costs and benefits of investing in resilience discusses the taxonomy of challenges faults attributes and disciplines of resilience overviews the major metrics useful in evaluating resilience provides a detailed classification of resilient routing schemes analyzes the features of optimization models for selected problems of resilient routing illustrates the properties of computationally efficient methods for determining the shortest sets of disjoint communication paths shows the practical use of resilient routing mechanisms in selected communication scenarios with a particular focus on up to date concepts such as network virtualization or content Routing, Flow, and Capacity Design in Communication and Computer Networks Michal Pioro, Deep centric networking Medhi, 2004-07-21 In network design the gap between theory and practice is woefully broad This book narrows it comprehensively and critically examining current network design models and methods You will learn where mathematical modeling and algorithmic optimization have been under utilized At the opposite extreme you will learn where they tend to fail to contribute to the twin goals of network efficiency and cost savings Most of all you will learn precisely how to tailor theoretical models to make them as useful as possible in practice Throughout the authors focus on the traffic demands encountered in the real world of network design Their generic approach however allows problem formulations and solutions to be applied across the board to virtually any type of backbone communication or computer network For beginners this book is an excellent introduction For seasoned professionals it provides immediate solutions and a strong foundation for further advances in the use of mathematical modeling for network design Written by leading researchers with a combined 40 years of industrial and academic network design experience Considers the development of design models for different technologies including TCP IP IDN MPLS ATM SONET SDH and WDM Discusses recent topics such as shortest path routing and fair bandwidth assignment in IP MPLS networks Addresses proper multi layer modeling across network layers using different technologies for example IP over ATM over SONET IP over WDM and IDN over SONET Covers restoration oriented design methods that allow recovery from failures of large capacity transport links and transit nodes Presents at the end of each chapter exercises useful to both students and practitioners **Optical WDM Networks** Jun Zheng, Hussein T. Mouftah, 2004-08-04 The essential guide to the state of the art in WDM and its vast networking potential As a result of its huge transmission capacity and countless other advantages fiber optics has fostered a bandwidth revolution addressing the constantly growing demand for increased bandwidth Within this burgeoning area Wavelength Division Multiplexing WDM

has emerged as a breakthrough technology for exploiting the capacity of optical fibers Today WDM is deployed by many network providers for point to point transmission but there is strong momentum to develop it as a full fledged networking technology in its own right The telecommunications industry network service providers and research communities worldwide are paying close attention Optical WDM Networks presents an easy to follow introduction to basic concepts key issues effective solutions and state of the art technologies for wavelength routed WDM networks Responding to the need for resources focused on the networking potential of WDM the book is organized in terms of the most important networking aspects such as Network control architecture Routing and wavelength assignment Virtual topology design and reconfiguration Distributed lightpath control and management Optical layer protection and restoration IP over WDM Trends for the future in optical networks Each chapter includes examples and problems that illustrate and offer practical application of concepts as well as extensive references for further reading This is an essential resource for professionals and students in electrical engineering computer engineering and computer science as well as network engineers designers planners operators and managers who seek a backbone of knowledge in optical networks Optical Networks Hussein T. Mouftah, Pin-Han Ho, 2012-12-06 Optical Networks Architecture and Survivability is a state of the art work on survivable and cost effective design of control and management for networks with IP directly over Wavelength Division Multiplexing WDM technology or called Optical Internet The authors address issues of signaling mechanisms resource reservation and survivable routing and wavelength assignment Special emphasis has been given to the design of meshed middle sized and wavelength routed networks with dynamic traffic in the optical domain such as the next generation Metropolitan Area Network Research and development engineers graduate students studying wavelength routed WDM networks and senior undergraduate students with a background in algorithms and networking will find this book interesting and useful This work may also be used as supplemental readings for graduate courses on internetworking routing survivability and network planning algorithms Computer Network Security Igor Kotenko, Victor Skormin, 2010-08-11 This book constitutes the refereed proceedings of the 5th International Conference on Mathematical Methods Models and Architectures for Computer Network Security MMM ACNS 2010 held in St Petersburg Russia in September 2010 The 16 revised full papers and 6 revised short papers presented together with 5 invited papers were carefully reviewed and selected from a total of 54 submissions The papers are organized in topical sections on security modeling and covert channels security policies and formal analysis of security properties authentication authorization access control and public key cryptography intrusion and malware detection security of multi agent systems and software protection as well as adaptive security security analysis and virtualization Path Routing in Mesh Optical Networks Eric Bouillet, Georgios Ellinas, Jean-Francois Labourdette, Ramu Ramamurthy, 2007-11-12 Transport networks evolved from DCS Digital Cross connect Systems based mesh architectures to SONET SDH Synchronous Optical Networking Synchronous Digital Hierarchy ring architectures in the 1990 s In the past few years technological advancements in optical transport switches have allowed service providers to support the same fast recovery in mesh networks previously available in ring networks while achieving better capacity efficiency and resulting in lower capital cost Optical transport networks today not only provide trunking capacity to higher layer networks such as inter router connectivity in an IP centric infrastructure but also support efficient routing and fast failure recovery of high bandwidth services This is possible due to the emergence of optical network elements that have the intelligence required to efficiently control the network Optical mesh networks will enable a variety of dynamic services such as bandwidth on demand Just In Time bandwidth bandwidth scheduling bandwidth brokering and optical virtual private networks that open up new opportunities for service providers and their customers alike Path Routing in Mesh Optical Networks combines both theoretical as well as practical aspects of routing and dimensioning for mesh optical networks All authors have worked as technical leaders for the equipment vendor Tellium who implemented such capabilities in its product and whose product was deployed in service provider networks Path Routing in Mesh Optical Networks Presents an in depth treatment of a specific class of optical networks i e path oriented mesh optical networks Focuses on routing and recovery dimensioning performance analysis and availability in mesh optical networks Explains and analyses routing specifically associated with Dedicated Backup Path Protection DBPP and Shared Backup Path Protection SBPP recovery architectures As most of the core backbone networks evolve to mesh topologies utilizing intelligent network elements for provisioning and recovery of services Path Routing in Mesh Optical Networks will be an invaluable tool for both researchers and engineers in the industry who are responsible for designing developing deploying and maintaining mesh optical networks It will also be a useful reference book for graduate students and university professors who are interested in optical networks or telecommunications networking With a foreword by Professor Wayne D Grover author of the book Mesh Based Survivable Networks Provisioning. Recovery, and In-Operation Planning in Elastic Optical Networks Luis Velasco, Marc Ruiz, 2017-09-01 Explains the importance of Elastic Optical Networks EONs and how they can be implemented by the world's carriers This book discusses Elastic Optical Networks EONs from an operational perspective It presents algorithms that are suitable for real time operation and includes experimental results to further demonstrate the feasibility of the approaches discussed It covers practical issues such as provisioning protection and defragmentation It also presents provisioning and recovery in single layer elastic optical networks EON The authors review algorithms for provisioning point to point anycast and multicast connections as well as transfer based connections for datacenter interconnection They also include algorithms for recovery connections from failures in the optical layer and in operation planning algorithms for EONs Provisioning Recovery and In operation Planning in Elastic Optical Network also examines multi layer scenarios It covers virtual network topology reconfiguration and multi layer recovery and includes provisioning customer virtual networks and the use of data analytics in order to bring cognition to the network In addition the book Presents managing connections dynamically and the flexibility to

adapt the connection bitrate to the traffic needs fit well for new types of services such as datacenter interconnection and Network Function Virtualization NFV Examines the topic in a holistic and comprehensive way addressing control and management plane issues for provisioning recovery and in operation planning Covers provisioning recovery and in operation planning for EONs at the proposed exhaustive level The rapid expanse of new services has made the use of EONs a relatively new concept a necessity That s why this book is perfect for students and researchers in the field of technologies for optical networks specifically EONs including network architectures and planning dynamic connection provisioning on line network re optimization and control and management planes It is also an important text for engineers and practitioners working for telecom network operators service providers and vendors that require knowledge on a rapidly evolving topic

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