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THE MATHEMATICAL THEORY OF NONBLOCKING SWITCHING NETWORKS

2nd Edition

Frank K Hwang

World Scientific

Mathematical Theory Of Nonblocking Switching Networks

L Cohen



Mathematical Theory Of Nonblocking Switching Networks:

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The Mathematical Theory of Nonblocking Switching Networks Frank Hwang, 1998 This is the first book to cover comprehensively the mathematical theory of nonblocking switching networks since Bene book published 30 years ago Not only is the material on the classical theory of nonblocking and rearrangeable networks updated but the modern topics on multicast and multirate switching are also surveyed The author had spent more than 25 years working on switching networks at Bell Laboratories before he started teaching the course at Chiao Tung University He has published about 40 papers and obtained a dozen patents on multistage interconnection networks

Nonblocking Electronic and Photonic Switching Fabrics Wojciech Kabacinski, 2005-12-06 Switching fabrics first appeared in telephone exchanges where there was a need to interconnect many pairs of telephones installed in the network Due to the large number of connected subscribers and int exchange links switching fabrics in telephone exchanges have to serve a great number of input and output ports Because of the scale large switching fabrics were constructed from smaller ones The way of building switching fabrics from elements of smaller capacity and different characteristics of switching fabrics topologies has been for a long time a rich area of theoretical research The seminal work is due to C Clos 23 who first considered multistage strict sense nonblocking switching networks and V E Benes 9 who first introduced the mathematical theory of switching networks From that time many research was

conducted in this field Switching fabrics found its application not only in telecommunication starting from telephone exchanges through ATM switches and IP routers to optical cross connect systems and optical packet switches but also in other areas of knowledge like computation and control Theory of switching fabrics becomes also a part of applied mathematics Results of studies carried out by researchers from these area were published in numerous papers and some books This book is intended for people interested in the switching the ory and especially combinatorial characteristics of switching networks It contains a considerable amount of already known results Some of them are presented in more detailed form other are only mentioned

Combinatorial Optimization in Communication Networks Maggie Xiaoyan Cheng, Yingshu Li, Ding-Zhu Du, 2006-07-02 Combinatorial optimization algorithms are used in many applications including the design management and operations of communication networks The objective of this book is to advance and promote the theory and applications of combinatorial optimization in communication networks Each chapter of the book is written by an expert dealing with theoretical computational or applied aspects of combinatorial optimization Topics covered in the book include the combinatorial optimization problems arising in optical networks wireless ad hoc networks sensor networks mobile communication systems and satellite networks A variety of problems are addressed using combinatorial optimization techniques ranging from routing and resource allocation to QoS provisioning

Combinatorial Optimization and Applications Ding-Zhu Du, Xiaodong Hu, Panos M. Pardalos, 2009-05-25 This book constitutes the refereed proceedings of the Third International Conference on Combinatorial Optimization and Applications COCOA 2009 held in Huangshan China in June 2009 The 50 revised full papers were carefully reviewed and selected from 103 submissions The papers feature original research in the areas of combinatorial optimization both theoretical issues and applications motivated by real world problems thus showing convincingly the usefulness and efficiency of the algorithms discussed in a practical setting

Proceedings of the 1995 International Conference on Parallel Processing Dharma P. Agrawal, 1995-08-08 This set of technical books contains all the information presented at the 1995 International Conference on Parallel Processing This conference held August 14 18 featured over 100 lectures from more than 300 contributors and included three panel sessions and three keynote addresses The international authorship includes experts from around the globe from Texas to Tokyo from Leiden to London Compiled by faculty at the University of Illinois and sponsored by Penn State University these Proceedings are a comprehensive look at all that s new in the field of parallel processing

Advances in Switching Networks Dingzhu Du, Frank Hwang, 1998-01-01 The articles collected in this book were presented in the DIMACS Workshop on Network Switching held in July 1997 at Princeton University These papers cover a variety of issues related to network switching including network environment routing network topology switching components nonblockingness and optimization

IEEE/ACM Transactions on Networking , 2009 **Mathematical Theory of Connecting Networks and Telephone Traffic** Václav E. Beneš, 1965 Mathematical theory of connecting networks and telephone traffic **Tutorial,**

Interconnection Networks for Parallel and Distributed Processing Chuan-lin Wu, Tse-yun Feng, 1984 *Switching Networks: Recent Advances* Ding-Zhu Du, Hung Q. Ngo, 2013-12-01 This book contains recent developments in switching networks and applications including classic topics such as nonblocking and Benes conjecture and new directions such as optical switching networks and applications in VLSI designs It provides the state of the art for researchers in computer networks and applied mathematics Audience Researchers in computer networks and applied mathematics The book is appropriate for use in graduate courses

Algebraic Switching Theory and Broadband Applications Shuo-Yen Robert Li, 2001 This book presents the algebraic fundamentals of switching theory with applications to the field of telecommunications In addition applications are described in such areas as multi processor interconnections hardware sorting fast Fourier transform and convolution decoding By linking switching theory to industrial practice throughout the book readers benefit from exposure to more than a pure mathematical treatment Algebraic Switching Theory and Broadband Applications is unique in its focus on developing an algebraic foundation for switching networks This focus will be of great value to researchers and distinguishes it from others in the field Key Features More than 250 illustrations Most relevant mathematical tools are all provided Parallel attention to applications and implemental feasibility throughout Some applications to parallel computing multi processor interconnection and hardware sorting besides telecommunications Topics follow a continuous flow motivate one another and pin down basic principles useful techniques and feasible designs The book contains a large amount of original results accrued during 1986-99 that have not been previously published

Issues in Interconnection Networks Hung Quang Ngo, 2001 **Proceedings of the Workshop on Interconnection Networks for Parallel and Distributed Processing, April 21-22, 1980** Howard Jay Siegel, 1980 *Proceedings of the Workshop on Interconnection Networks for Parallel and Distributed Processing*, 1980 *Photonic Switching Technology* Hussein T. Mouftah, Jaafar M. H. Elmirghani, 1999 Electrical Engineering Photonic Switching Technology Systems and Networks Find out how today's photonic switching technologies can provide a functional advantage in handling the ever increasing data rates and bandwidth requirements placed on telecommunication components systems and networks with this self contained tutorial guide Based on systems currently in use Photonic Switching Technology Systems and Networks will equip practitioners and researchers with a comprehensive understanding of the functionality and versatility provided by photonics technologies used in all optical networks weighed against their costs and limitations The authors feature special coverage of state of the art pilot systems that use photonic switching and multiwavelength techniques such as Monet LambdaNet Cobra and StarNet These systems not only demonstrate the feasibility of optical systems but also the implications of system integration supporting technologies and system economics Photonic Switching Technology brings you a wealth of information on Photonic switches based on the electro optic effect switches based on semiconductor optical amplifiers SOA and optical memory switches Free space optical switching Wavelength division switching including wavelength routing wavelength

conversion and WDM packet switching Optical crossconnects Pooling Designs and Nonadaptive Group Testing Dingzhu Du, Frank Hwang, 2006 Pooling designs have been widely used in various aspects of DNA sequencing In biological applications the well studied mathematical problem called group testing shifts its focus to nonadaptive algorithms while the focus of traditional group testing is on sequential algorithms Biological applications also bring forth new models not previously considered such as the error tolerant model the complex model and the inhibitor model This book is the first attempt to collect all the significant research on pooling designs in one convenient place The coverage includes many real biological applications such as clone library screening contig sequencing exon boundary finding and protein protein interaction detecting and introduces the mathematics behind it **Special Symposium on Advanced Hybrid Computing, San Francisco, California, 23-24 July 1975 ,1976**

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