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Andrew S. Tanenbaum | David J. Wetherall

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Computer Networks 5th International Edition

Onwubiko, Cyril,Owens, Thomas

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Computer Networking and the Internet Fred Halsall,2005 With the advent of the World Wide Web the global Internet has rapidly become the dominant type of computer network It now enables people around the world to use the Web for E Commerce and interactive entertainment applications in addition to e mail and IP telephony As a result the study of computer networking is now synonymous with the study of the Internet and its applications The 5th edition of this highly successful text has been completely revised to focus entirely on the Internet and so avoids the necessity of describing protocols and architectures that are no longer relevant As many Internet applications now involve multiple data types text images speech audio and video the book explains in detail how they are represented A number of different access networks are now used to gain access to the global Internet Separate chapters illustrate how each type of access network operates and this is followed by a detailed account of the architecture and protocols of the Internet itself and the operation of the major application protocols This body of knowledge is made accessible by extensive use of illustrations and worked examples that make complex systems more understandable at first glance This makes the book ideal for self study or classroom use for students in Computer Science or Engineering as well as being a comprehensive reference for practitioners who require a definitive guide to networking **User-Centric and Information-Centric Networking and Services** M. Bala Krishna,2019-04-29 User Centric Networks UCN and Information Centric Networks ICN are new communication paradigms to increase the efficiency of content delivery and also content availability In this new concept the network infrastructure actively contributes to content caching and distribution This book presents the basic concepts of UCN and ICN describes the main architecture proposals for these networks and discusses the main challenges to their development The book also looks at the current challenges for this concept including naming routing and caching on the network core elements several aspects of content security user privacy and practical issues in implementing UCN and ICN Intrusion Detection Zhenwei Yu,Jeffrey J.-P. Tsai,2011 Introduces the concept of intrusion detection discusses various approaches for intrusion detection systems IDS and presents the architecture and implementation of IDS This title also includes the performance comparison of various IDS via simulation **Computer Networks: Pearson New International Edition** Andrew Tanenbaum,David J. Wetherall,2013-07 Appropriate for Computer Networking or Introduction to Networking courses at both the undergraduate and graduate level in Computer Science Electrical Engineering CIS MIS and Business Departments Tanenbaum takes a structured approach to explaining how networks work from the inside out He starts with an explanation of the physical layer of networking computer hardware and transmission systems then works his way up to network applications Tanenbaum s in depth application coverage includes email the domain name system the World Wide Web both client and server side and multimedia including voice over IP Internet radio video on demand video conferencing and streaming media **Situational Awareness in Computer Network Defense: Principles, Methods and Applications** Onwubiko, Cyril,Owens, Thomas,2012-01-31 This

book provides academia and organizations insights into practical and applied solutions frameworks technologies and implementations for situational awareness in computer networks Provided by publisher **Large Scale Networks** Radu Dobrescu,Florin Ionescu,2016-10-03 This book offers a rigorous analysis of the achievements in the field of traffic control in large networks oriented on two main aspects the self similarity in traffic behaviour and the scale free characteristic of a complex network Additionally the authors propose a new insight in understanding the inner nature of things and the cause and effect based on the identification of relationships and behaviours within a model which is based on the study of the influence of the topological characteristics of a network upon the traffic behaviour The effects of this influence are then discussed in order to find new solutions for traffic monitoring and diagnosis and also for traffic anomalies prediction Although these concepts are illustrated using highly accurate highly aggregated packet traces collected on backbone Internet links the results of the analysis can be applied for any complex network whose traffic processes exhibit asymptotic self similarity perceived as an adaptability of traffic in networks However the problem with self similar models is that they are computationally complex Their fitting procedure is very time consuming while their parameters cannot be estimated based on the on line measurements In this aim the main objective of this book is to discuss the problem of traffic prediction in the presence of self similarity and particularly to offer a possibility to forecast future traffic variations and to predict network performance as precisely as possible based on the measured traffic history *The Handbook of Computer Networks, Distributed Networks, Network Planning, Control, Management, and New Trends and Applications* Hossein Bidgoli,2008 The Handbook of Computer Networks is the third set of reference books from leading author and Professor of Management Information Systems at California State University Bakersfield Hossein Bidgoli The Handbook of Computer Networks is designed to arm researchers practitioners students and managers with in depth understanding of this important and fast growing field in its broadest scope and in an applied and functional framework Each volume incorporates state of the art core information and networking topics practical applications and coverage of the emerging issues in the computer networking and data communications fields *The British National Bibliography* Arthur James Wells,2005 *Cumulative Book Index* ,1998 A world list of books in the English language **Web-Based Management of IP Networks and Systems** Jean-Philippe Martin-Flatin,2003 Building on the author s extensive experience in industry and government agencies this book proposes a general framework for integrating the management of networked systems in the IP world The Web based Integrated Management Architecture WIMA leverages XML s self description capability to integrate SNMP data and CIM objects in a seamless manner The first part of the book begins with a detailed analysis of SNMP it highlights its strengths and weaknesses and justifies the need for object oriented information models such as CIM Next the author summarizes the different paradigms considered in management research and industry in the past decade compares the suitability of different middleware solutions and concludes that with current technologies Web based management makes a

lot of technical sense and is not just trendy The second part goes into software engineering detail and discusses tradeoffs for organizing manager to agent communication In WIMA agents publish the monitoring data and notifications they can send and management applications managers subscribe to them in a semi or fully automated way The same publish subscribe paradigm is used for manager to manager communication when managers are organized hierarchically to manage a large domain or different domains We explain why this solution decreases network overhead and improves scalability Security issues are also investigated The third part of the book presents the high level design of JAMAP a research prototype that implements the main components of the WIMA architecture Its code is freely available and released under the GPL license This prototype is currently being ported to Web Services Finally the author compares WIMA with SNMP WBEM CIM and JMX and concludes that WBEM could evolve into WIMA in the future This book is primarily aimed at software architects and engineers who design and write management applications It should also be of interest to administrators and people who are versed into management architectures *American Book Publishing Record* ,2007 *All-optical Networking 1999* John M. Senior,Chunming Qiao,Sudhir Dixit,1999 This work presents a series of papers examining various aspects of architecture control and management issues in all optical networking **Proceedings** ,1996 Proceedings of the ACM SIGSOFT/SIGPLAN Software Engineering Symposium on Practical Software Development Environments Peter B. Henderson,1988 **Changing Threats to Global Security** Paul Fogelberg,2004 **New Serial Titles** ,1986 A union list of serials commencing publication after Dec 31 1949 *Parallel and Distributed Processing* ,2000 **Index of Conference Proceedings** British Library. Document Supply Centre,2002 **Satellites Packets and Distributed Telecommunications : A Compendium of Source Materials** Roy D. Rosner,1984 **Index of Conference Proceedings Received** British Library. Document Supply Centre,1986

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