

Applications of Communications Theory

Jeremiah F. Hayes

Modeling and Analysis
of Computer
Communications Networks

 Springer

Modeling And Analysis Of Computer Communications Networks

Jeremiah F. Hayes



Modeling And Analysis Of Computer Communications Networks:

Modeling and Analysis of Computer Communications Networks Jeremiah Hayes, 2013-01-31 In large measure the traditional concern of communications engineers has been the conveyance of voice signals. The most prominent example is the telephone network in which the techniques used for transmission multiplexing and switching have been designed for voice signals. However, one of the many effects of computers has been the growing volume of the sort of traffic that flows in networks composed of user terminals, processors, and peripherals. The characteristics of this data traffic and the associated performance requirements are quite different from those of voice traffic. These differences coupled with burgeoning digital technology have engendered a whole new set of approaches to multiplexing and switching this traffic. The new techniques are the province of what has been loosely called computer communications networks. The subject of this book is the mathematical modeling and analysis of computer communications networks that is to say the multiplexing and switching techniques that have been developed for data traffic. The basis for many of the models that we shall consider is queueing theory, although a number of other disciplines are drawn on as well. The level at which this material is covered is that of a first year graduate course. It is assumed that at the outset the student has had a good undergraduate course in probability and random processes of the sort that are more and more common among electrical engineering and computer science departments. Modeling and Analysis of Computer Communications Networks

Analysis of Computer and Communication Networks Faye Gebali, 2008-06-24 The purpose of this book is to give the reader two things to paraphrase Mark Twain: Roots to know the basics of modeling networks and Wings to fly away and attempt modeling other proposed systems of interest. The Internet phenomenon is affecting us all in the way we communicate, conduct business, and access information and entertainment. More unforeseen applications are still to come. All of this is due to the existence of an efficient global high performance network that connects millions of users and moves information at a high rate with small delay. **High Performance Networks** A high performance network is characterized by two performance measures: bandwidth and delay. Traditional network design focused mainly on bandwidth; planning the solution to network problems was to add more bandwidth. Nowadays we have to consider message delay, particularly for delay sensitive applications such as voice and real time video. Both bandwidth and delay contribute to the performance of the network. Bandwidth can be easily increased by compressing the data by using links with higher speed or by transmitting several bits in parallel using sophisticated modulation techniques. Delay, however, is not so easily improved. It can only be reduced by the use of good scheduling protocols, very fast hardware, and switching equipment throughout the network. The increasing use of optical fibers means that the transmission channel is close to ideal with extremely high bandwidth and low delay. Speed of flight. The areas that need optimization are the interfaces and devices that connect the different links together, such as hubs, switches, routers, and bridges. **Modeling and Analysis of Computer Communications Networks** Jeremiah F. Hayes, 2013-03-08

In large measure the traditional concern of communications engineers has been the conveyance of voice signals. The most prominent example is the telephone network in which the techniques used for transmission multiplexing and switching have been designed for voice signals. However one of the many effects of computers has been the growing volume of the sort of traffic that flows in networks composed of user terminals, processors and peripherals. The characteristics of this data traffic and the associated performance requirements are quite different from those of voice traffic. These differences coupled with burgeoning digital technology have engendered a whole new set of approaches to multiplexing and switching this traffic. The new techniques are the province of what has been loosely called computer communications networks. The subject of this book is the mathematical modeling and analysis of computer communications networks that is to say the multiplexing and switching techniques that have been developed for data traffic. The basis for many of the models that we shall consider is queueing theory although a number of other disciplines are drawn on as well. The level at which this material is covered is that of a first year graduate course. It is assumed that at the outset the student has had a good undergraduate course in probability and random processes of the sort that are more and more common among electrical engineering and computer science departments.

Modeling and Analysis of Telecommunications Networks Jeremiah F. Hayes, Thimma V. J. Ganesh Babu, 2004-03-01 This book covers at an advanced level mathematical methods for analysis of telecommunication networks. The book concentrates on various call models used in telecommunications such as quality of service QoS in packet switched Internet Protocol IP networks Asynchronous Transfer Mode ATM and Time Division Multiplexing TDM. Professionals, researchers and graduate and advanced undergraduate students of telecommunications will benefit from this invaluable guidebook.

Simulation of Local Area Networks Matthew N. O. Sadiku, 2018-01-18 A fast growing area in the communications industry is the internetworking of an ever increasing proliferation of computers particularly via local area networks LANs. The LAN is a resource sharing data communications network being used by many offices to interchange information such as electronic mail, word processing and files among computers and other devices. This unique book shows the user how to establish the performance characteristics of a LAN before putting it to use in a particular type of situation. Simulation of Local Area Networks consists of eight chapters each with its own extensive list of references. The first chapter provides a brief review of local area networks and the second chapter gives the analytical models of popular LANs: token passing bus and ring networks, CSMA/CD LANs and star networks. Chapter 3 covers general principles of simulation and Chapter 4 discusses fundamental concepts in probability and statistics relating to simulation modeling. Materials in Chapters 3 and 4 are specifically applied in developing simulation models on token passing LANs, CSMA/CD LANs and star LANs in Chapters 5 through 7. The computer code in Chapters 5, 6 and 7 is divided into segments and a detailed explanation of each segment is provided. The last chapter reviews special purpose languages such as GPSS, SIMSCRIPT, GASP, SIMULA, SLAM and RESQ. Helpful criteria for language selection are included. The entire code is put together in the appendixes. This book has

two major advantages over existing texts First it uses C a well developed general purpose language that is familiar to most analysts Second the text specifically applies the simulation principles to local area networks No other book available shows the systems analyst how to evaluate the performance of existing or proposed systems under different kinds of conditions

Analysis of Computer and Communication Networks Fayez Gebali,2008-11-01 Analysis of Computer and Communication Networks provides the basic techniques for modeling and analyzing two of the fundamental components of high performance networks switching equipment and software employed at the end nodes and intermediate switches The book also reviews the design options used to build efficient switching equipment Topics covered include Markov chains and queuing analysis traffic modeling interconnection networks and switch architectures and buffering strategies This book covers the mathematical theory and techniques necessary for analyzing telecommunication systems Queuing and Markov chain analyses are provided for many protocols currently in use The book then discusses in detail applications of Markov chains and queuing analysis to model more than 15 communications protocols and hardware components **The Army Communicator** ,1988 Performance Modeling and Analysis of Bluetooth Networks Jelena Misic,Vojislav B. Misic,2005-07-28 Until now developers and researchers interested in the design operation and performance of Bluetooth networks have lacked guidance about potential answers and the relative advantages and disadvantages of performance solutions Performance Modeling and Analysis of Bluetooth Networks Polling Scheduling and Traffic Control summarizes t
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