



# Analysis of Computer and Communication Networks

By Fayeze Gebali

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## Analysis of Computer and Communication Networks By Fayeze Gebali

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.

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## **Analysis of Computer and Communication Networks By Fayez Gebali Bibliography**

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### Editorial Review

#### Review

From the reviews:

"Gebali ... devotes the first half of this book to the relevant mathematics needed for the network analysis he covers in the second half. ... Each of the 16 chapters concludes with an extensive problem set and a list of references. ... the monograph will also be useful to practicing engineers. Summing Up: Recommended. Graduate students, researchers, faculty, and professionals." (E. M. Aupperle, Choice, Vol. 46 (6), February, 2009)

#### From the Back Cover

Analysis of Computer and Communication Networks presents the academic and research communities with mathematical theory and techniques necessary for analyzing and modeling high-performance global networks, such as the Internet.

The three main building blocks of high-performance networks are links, switching equipment connecting the links together, and software employed at the end nodes and intermediate switches. This work provides the basic techniques for modeling and analyzing these last two components. Topics covered include, but are not limited to: Markov chains and queuing analysis, traffic modeling, interconnection networks and switch architectures and buffering strategies. The text also includes

- a novel and detailed description of Markov processes as well as an entire chapter dedicated to solving Markov chains in equilibrium,
- appendices are provided as a handy reference for material and formulas discussed in the book,
- a discussion on the use of MATLAB® in engineering applications and a brief introduction on the package since it is one of the more common mathematical packages used,
- over 550 homework problems.

Analysis of Computer and Communication Networks is intended for senior and graduate students, university researchers and practicing engineers in communications, network design and analysis.

### Users Review

#### From reader reviews:

##### Shawn Farr:

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