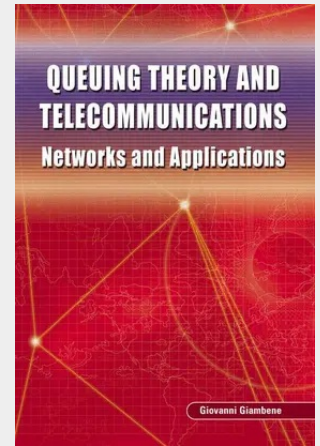


Queuing Theory and Telecommunications

Networks and Applications

Covering both fundamental methods and practical applications used for telecommunication network analysis and design Integrating quantitative and qualitative treatment of the new topics in networking such as MPLS, access protocols, among others Targeted at engineers and graduate students majoring in networking

Queuing Theory and Telecommunications: Networks and Applications provides some fundamental knowledge in queuing theory, as well as essential analytical methods and approaches to be employed to evaluate and design telecommunication networks. This work provides methods for teletraffic analysis as well as descriptions of current network technologies such as ISDN, B-ISDN, IP-based networks, MPLS, GMPLS, NGN and local access systems, including ADSL-based, Ethernet, Token Passing, and WiFi. Also, numerous solved exercises are provided in order to illustrate the applications of queuing theory in telecommunication networks. The following advanced telecommunication problems are modeled and solved by means of queuing analysis: statistics of the transmission delay for packet data traffic arriving at a transmission buffer; blocking behavior for bursty call arrival processes; characterization of Markovian traffic sources; performance of traffic regulators, analysis of access protocols and more. The author provides readers with a correct understanding of fundamental methods to be applied in the analysis of telecommunications systems. Queuing Theory and Telecommunications: Networks and Applications is a reference text for advanced undergraduate and graduate level courses in telecommunications engineering and networking. It will also serve as a useful work for system engineers involved in network dimensioning.



102,67 €

95,95 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9780387240657

Medium: Buch

ISBN: 978-0-387-24065-7

Verlag: Springer Netherlands

Erscheinungstermin: 15.06.2005

Sprache(n): Englisch

Auflage: 1. Auflage 2005

Produktform: Gebunden

Gewicht: 2260 g

Seiten: 588

Format (B x H): 155 x 235 mm

