Data Networks Gallager Bertsekas

Data NetworksData NetworksInteracting Random Access Communication NetworksReliable Broadcasting Over Mobile NetworksAlgorithms and Protocols for Wireless Sensor NetworksProtocol Management in Computer NetworkingRouting in Mobile Ad Hoc NetworksFrontiers'99Artificial Intelligence and Computer ScienceProceedingsJournal of Communications and NetworksTeletraffic Engineering in a Competitive WorldMOBICOM ...American Book Publishing RecordThe Australian Computer JournalAustralian Computer JournalGLOBECOM '90Development and Applications of ATMDistributed AlgorithmsCollision Avoidance and Resolution Multiple Access Dimitri P. Bertsekas Dimitri Bertsekas Kyung Sup Kwak Yuxia Zhang Azzedine Boukerche Philippe Byrnes Marc Elliott Mosko IEEE Computer Society Susan Shannon Peter Key Mehmet Toy Rodrigo Garcés

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based on an extremely popular short course conducted by the authors for several fortune 500 companies this volume is designed to help professionals develop a deeper understanding of data networks and evolving integrated networks and to

explore today s various analysis and design tools key topics it begins with an overview of the principles behind data networks then develops an understanding of the modeling issues and mathematical analysis needed to compare the effectiveness of different networks an ideal reference for communication network and research and development engineers

this classic textbook aims to provide a fundamental understanding of the principles that underlie the design of data networks which form the backbone of the modern internet it was developed through classroom use at mit in the 1980s and continues to be used as a textbook in mit classes the present edition also contains detailed high quality solutions to all the end of chapter exercises among its major features the book 1 describes the principles of layered architectures 2 explains the principles of data link control with many examples and insights into distributed algorithms and protocols 3 provides an intuitive coverage of queueing and its applications in delay and performance analysis of networks 4 covers the theory of multiaccess communications and local data networks 5 discusses in depth theoretical and practical aspects of routing and topological design 6 covers the theory of flow control emphasizing issues of congestion and delay in integrated high speed networks

boukerche is well known and established international researcher in the field of wireless mobile networks and distributed systems this is one of the first publications to focus on wireless ad hoc and sensor networks with a concentration on algorithms and protocols providing you with a comprehensive resource to learn about the continuous advances in wireless and mobile communications

taking an innovative approach to network management communications protocols and data networks this new book examines a unique method in which protocols and mechanisms are broken down into simple management tasks it helps you steer your way through the history of network management and communications protocols and guides you through the design of new protocols and the construction of complex networks operating under a simpler paradigm

proceedings from the february 1999 symposium illustrate the path that massively parallel technology follows in going from long range research to strategic resource to commercial application thirty six contributions address such topics as parallel numerical computation and applications optical computing quantum computing petaflops and configurable computing annotation copyrighted by book news inc portland or

this book presents leading edge research in the field of computer research technology and applications each contribution has been carefully selected for inclusion based on the significance of the research to the field summaries of all chapters are gathered at the beginning of the book and an in depth index is presented to facilitate access

contains over 50 of the leading articles published on the subject of asynchronous transfer mode covering such topics as the fundamentals of atm switching techniques traffic analysis network management and specific applications

multiple access interference constitutes a major cause of throughput degradation in wireless networks the focus of this thesis is the design and analysis of medium access control protocols that mitigate multiple access interference by resolving collisions of small control packets used to avoid the collision of much larger data packets an upper bound on the average cost of resolving collisions using a deterministic tree splitting algorithm is derived this bound is then applied to the compute the average channel utilization in a fully connected network with a large number of stations under light load conditions collision avoidance and resolution carma protocols achieve the same average throughput as floor acquisition multiple access fama protocols it is also shown that as the arrival rate of rtss increases the throughput achieved by carma protocols is close to the maximum throughput that any fama protocol can achieve when propagation delays and the control packets used to acquire the floor are much smaller than the data packet trains sent by stations

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