



Data Network Engineering

J Dewey



Data Network Engineering:

Data Network Engineering Tim King, Dave Newson, 2012-12-06 It is certain that over the next few years data traffic will dwarf voice traffic on telecommunications networks Growth in data traffic volumes far exceeds that for voice and is driven by increased use of applications such as e mail attachments remote printing and files server access and the now omnipresent World Wide Web The growth of data networking to connect computers with each other and with their peripheral devices began in earnest in the 1970s took off in the 1980s and exploded in the 1990s The early 21st century will see ever faster more cost effective networks providing flexible data access into ever more businesses and homes Since the 1970s there have been great advances in technology For the past twenty years the processing power of computers has continued to grow with no hint of slowing recall the oft cited Moore's Law claiming that this power doubles every 18 months Advances in the data networking equipment required to support the data traffic generated have been enormous The pace of development from early X 25 and modem technology through to some of the advanced equipment functionality now available is breathtaking it is sometimes hard to believe that the practical router is barely ten years old This book provides an overview of the advanced data networking field by bringing together chapters on local area networks wide area networks and their application

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twenty six billion by the year 2020 Never has it been more urgent for engineering students to understand the fundamental science and technology behind data communication and this book the first of its kind gives them that understanding To achieve this goal the book Combines signal theory data protocols and wireless networking concepts into one text Explores the full range of issues that affect common processes such as media downloads and online games Addresses services for the network layer the transport layer and the application layer Investigates multiple access schemes and local area networks with coverage of services for the physical layer and the data link layer Describes mobile communication networks and critical issues in network security Includes problem sets in each chapter to test and fine tune readers understanding Fundamentals of Data Communication Networks is a must read for advanced undergraduates and graduate students in electrical and computer engineering It is also a valuable working resource for researchers electrical engineers and technical professionals

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