Planning Telecommunication Networks

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DESCRIPTION

The ever-growing number of new telecommunications technologies, along with the rapid growth of data networks and cable television systems has created a demand for sound network planning. In one concise volume, this book offers professionals in telecommunications and networking and graduate students an introduction to the theory underlying the interdisciplinary field of network planning, a critical aspect of network management that integrates planning telecommunications and data networks.

In PLANNING TELECOMMUNICATIONS NETWORKS you will learn about the mathematical theory behind network planning, including an accessible treatment of linear programming and graph algorithms. Other featured topics cover:

• Reliability theory for network planning

• Recent software advances in databases, expert systems, object-oriented programming, data mining and data visualization

• Latest developments in new optimization techniques such as tabu search, simulated annealing, genetic algorithms, and neural networks

Complete with homework problems, this text offers you a broad overview of network planning to begin your exploration of this emerging field.

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ABOUT THE AUTHOR

Thomas G. Robertazzi is an associate professor of electrical engineering at Suny at Stony Brook. In recent years, he has taught telecommunications and data networking courses at Suny at Stony Brook, The Cooper Union, and in industry. Since 1993 Professor Robertazzi has also been faculty director of the Stony Brook Interdisciplinary Program in Science and Engineering. Professor Robertazzi's research interests lie in the performance evaluation of computer and communication systems. He has published extensively in the areas of parallel processor scheduling, ATM switching, Queueing networks, Petri networks, and multihop radio networks. In the area of performance evaluation, he has written one book, coauthored a second, and edited a third. Professor Robertazzi has served as an editor of books for the IEEE Communications Society and as an associate editor of the journal, Wireless Networks.

FEATURES

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