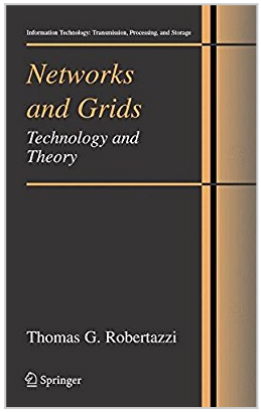

Networks and Grids: Technology and Theory (Information Technology: Transmission, Processing and Storage)

By Thomas G. Robertazzi

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This useful volume adopts a balanced approach between technology and mathematical modeling in computer networks, covering such topics as switching elements and fabrics, Ethernet, and ALOHA design. The discussion includes a variety of queueing models, routing, protocol verification and error codes and divisible load theory, a new modeling technique with applications to grids and parallel and distributed processing. Examples at the end of each chapter provide ample material for practice. This book can serve as an text for an undergraduate or graduate course on computer networks or performance evaluation in electrical and computer engineering or computer science.

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Editorial Review

Review

From the reviews:

"Robertazzi (Stony Brook Univ., NY) has written a powerful book on computational assessments of network grids and telecommunication systems. It provides a heady combination of technological and mathematical theories … . Each chapter has an abundance of challenging problems. Summing Up: Highly recommended. Graduate students, professionals." (M. Connell, CHOICE, Vol. 45 (8), 2008)

"The book combines elements of theory and technology of both classical networks and grid systems enabling resource sharing and coordination, and distributed computing. It gives an interesting overview of theoretical aspects of network operation, ranging from stochastic models encompassing queueing theory, Petri nets, routing algorithms and load scheduling, up to performance evaluation for grids and grid computing. It is an interesting and useful book that can be recommended for both undergraduate and first-year graduate students.” (Jozef Wozniak, Zentralblatt MATH, Vol. 1132 (10), 2008)

From the Back Cover

This textbook is intended for an undergraduate/graduate course on computer networks and for introductory courses dealing with performance evaluation of computers, networks, grids and telecommunication systems.

Unlike other books on the subject, this text presents a balanced approach between technology and mathematical modeling. It covers networking and grid technology, algorithms (routing, error codes, protocol verification) and analysis (probability for networking with technological examples, queueing models and divisible load scheduling theory).

This self-contained text progresses systematically and gives students numerous problems at the end of each chapter. Students in electrical engineering, computer engineering and computer science departments will benefit from this book as will engineers and computer scientists working in relevant fields.

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