



Multidimensional Queueing Models in Telecommunication Networks

By Agassi Melikov, Leonid Ponomarenko

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The increasing complexity of telecommunication networks requires us to develop adequate mathematical models. We must find their characteristics, optimize them subject to chosen criteria, and develop the corresponding control algorithms. Multidimensional queueing models are used to design and optimize modern and next-generation networks (NGN). The central problem of the related mathematical theory is to apply multidimensional and large-size queueing models to improve efficiency. In this book new methods are successively developed and applied to solve related problems.

The book is recommended for researchers engaged with the mathematical theory of telecommunications traffic.

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- Published on: 2014-08-09
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x .50" w x 6.14" l, .0 pounds
- Binding: Hardcover
- 190 pages

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About the Author

Prof. Agassi Z. Melikov is a professor in the Dept. of Teletraffic Theory at the Institute of Cybernetics of the National Academy of Sciences of Azerbaijan and a professor in the Dept. of Information Technologies at Baku State University, Azerbaijan. His research interests include teletraffic and queueing theory and their applications. Prof. Leonid A. Ponomarenko is a senior scientific researcher in the International Scientific-Education Center of the National Academy of Science of Ukraine, and he is a professor in the Dept. of Project Management in Kiev National University of Civil Engineering and Architecture. His areas of interests include mathematical modeling, the theory of queues with priorities, economics, logic and computer communications. He was awarded the state prize of Ukraine in Science and Engineering in 2002.

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