



# Switching Processes in Queueing Models

*Vladimir Anisimov*

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## **Switching Processes in Queueing Models** Vladimir Anisimov

Containing many practical examples for researchers and engineers, this book examines the development of the asymptotic theory for the class of switching queueing models that covers state-dependent models in a Markov or semi-Markov environment, models under the influence of flows of external or internal perturbations, and unreliable and hierarchic networks. The main tools used in the investigation are known as switching processes. Asymptotic results for processes with rare switching provide new approaches to low-traffic problems and the analysis of flows of rare events and asymptotic aggregation of state space in queueing models. In the case of fast switching, averaging principle and diffusion approximation results are proved and applied to the investigation of transient phenomena for wide classes of overloading queueing Markov and semi-Markov networks and hierarchic models in different time scales.

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