

Dudin, A. N.; Kim, C. S.; Semenova, O. V.

An optimal multithreshold control for the input flow of the $GI/PH/1$ queueing system with a BMAP flow of negative customers. (English. Russian original) [Zbl 1094.90008](#)

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Summary: A $GI/PH/1$ queueing system with an additional flow of negative customers is studied. The system has many operation modes differing in the distribution of inter-arrival lengths. Mode control depends on the queue length at arrival instants defined by a multithreshold strategy. The stationary state probability distribution of the system for fixed thresholds is studied. Numerical examples are given to illustrate the determination of the optimal threshold set in a fixed search domain.

MSC:

[90B22](#) Queues and service in operations research

Cited in **5** Documents

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