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Quantitative
Modeling
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Systems

On the Analysis of the Symmetrical Shortest Queue

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Abstract The symmetrical shortest queueing model has been studied in several papers. It resulted that the two unknown functions needed for the comptete analytic description of the solution are meromorphic functions. In the present paper it is shown that this meromorphy can be simple established from the functional equation. Also the zeros and poles of these meromorphic functions are simple to locate. The information so obtained determines these meromorphic fuctions and leads to simple expressions for the operational characteristics of the symmetrical shortest queue, which are easily calculated with any desired accuracy.

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