

A Takacs-Type Equation in the M/G/1 Queue with N-Policy and Setup Times

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Abstract

This paper studies the M/G/1 queueing with N -policy and set-up times. A Takács-type equation for the Laplace-Stieltjes transform of the distribution for the virtual waiting time is derived by means of a probabilistic interpretation. Some known results are given as consequences.

Keywords: Queueing System, Poisson Process, Collective Marks.