

Akinsete, A. A (2001). Blocked network of tandem queues with withdrawals. *Kragujevac J. Math.* **23**, 63-73. MR1863044 (2002h: 60197).
<http://isi.cbs.nl/iamamember/CD2/pdf/753.pdf>

Abstract:

We consider a network of two queues in tandem with one server in the first queue, and $n \geq 1$ in the second queue. Customers access the system through the first queue in accordance with Poisson input having parameter λ . Holding times are independent and identically distributed exponential random variables with rates μ_1 and μ_2 at the first and second queues respectively. A blocking phenomenon is observed in the system with empty buffer between stages, bringing about a withdrawal effect. We obtain the state probabilities and observe that the system has no product form.