Abstract

In the present paper, we analyze the effect of varying catastrophic intensity on a limited capacity Markovian queueing system with two identical servers. The time dependent probabilities for the number in the system are obtained. The steady state probabilities and various measures of performance are also provided. Further some important particulars cases are also derived and discussed.

References

Two Homogeneous Servers Limited Capacity Markovian Queuing System Subjected to Varying Catastrophic Intensity


Index Terms

Computer Science
Statics
Keywords
Two homogeneous servers  varying catastrophic intensity  Laplace transforms
Markovian queueing system