Abstract

In this paper, the batch arrival MX/M/1 queuing system along with server breakdowns and multiple working vacations is analyzed under exponential distribution. For this model Stochastic Decomposition is obtained and particular cases are evaluated. Further numerical illustration is also given to justify the validity of the model.

References

York, (Second Edition).

**Index Terms**

Computer Science, Networks

**Keywords**

Batch Arrival, Multiple Working Vacations, Breakdowns, Probability Generating Function(PGF), Stochastic Decomposition.