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

Analysis of MX/M/1/MWV/BD Queuing Systems

York, (Second Edition).


Index Terms

Computer Science  Networks

Keywords

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