A MARKOVIAN STUDY OF MAINTENANCE PRACTICE IN A PRODUCTION FIRM

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Abstract

The result of a stochastic study of current maintenance practice aimed at examining ways of reducing

occurrence of equipment failure in a Lagos based soft drink bottling company is presented. The

method proposed is illustrated by analyzing a classical set of maintenance related data obtained from

the firm studied. The authors have shown the usefulness of the concept of transition probability matrix

in maintenance planning.

Keywords: Transition matrix, Absorbing state, Catastrophic Failure, Matrix Utilization Factors.

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