

RELIABILITY ANALYSIS OF A STOCHASTIC MODEL OF CHEESE MAKING PLANT

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Abstract

This research paper is concerned with Reliability analysis of a stochastic model of cheese making plant, which consists of a number of different sub systems of various nature. This analysis has been done with the help of Regenerative point technique by repair time distribution and failure time distribution are taken as exponential. In particular we have taken the exponential distribution as repair time distribution. Some important measures such as Reliability, MTSF, Availability analysis, busy period analysis, Cost benefit analysis have been computed for the model. A graphical study has also been done to highlight the importance of the results.

Key Words and Phrases : *Reliability Analysis, Mean time to system failure, Availability busy period, Cost benefit analysis.*

2000 AMS Subject Classification : 60K10.

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