

ECONOMICS

Advanced Edit

For a manufacturing organization to compete effectively in the global marketplace, cutting costs and improving overall efficiency is essential. -In this paper, we present a single-stage production system with two independent quality characteristics, andeach having a different associated costs associated with each quality characteristic, that This associated cost falls below a lower specification limit (scrap) or above an upper specification limit (rework) is presented in this paper. The amountnumber of reworks and number of scraps are assumed to be dependenting on the process parameters such as process mean and standard deviation. The process mean and standard deviation are the important parameters of a quality characteristic.; **±**Thus, the expected total profit is significantly dependent on the process parameters. In <u>Ft</u>his paper, we develops a <u>mM</u>arkovian decision-making model for to determineing the process means. We perform a Sensitivity analysiszes is performed to validate the proposed model, and present a numerical example is given as an illustration. The results showed that the optimal process mean has a major effects on the parameters of the quality characteristics.

Source: Absorbing Markov Chain Models to Determine Optimum Process Target Levels in Production Systems with Dual Correlated Quality Characteristics by Mohammad Saber Fallah Nezhad and Hasan Hosseini Nasab used under CC-BY.

Comment [A1]: I have inserted this phrase for clarity. Please check if it is accurate.



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