



## Causal Loop Diagrams And Feedbacks: A Case Study In Flexible Manufacturing System

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### Abstract

The causal loop diagrams, a simple way to map the interactive elements in feedback systems, were first proposed by Maruyama in 1963. The purpose of the causal loop diagrams is to demonstrate which element in the dynamic system causes a change in the other. Causal loop diagrams are used to map the system structure in order to try to understand system behavior. This study aims to show how to use causal loop diagrams to analyze lot size in flexible manufacturing systems. This provides a wide comprehension of factors that force production managers.

**Keywords:** Causal Loop Diagrams, Feedback Loops, Flexible Manufacturing System