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Queueing theory in manufacturing: A survey

Manish K. Govil ... Michael C. Fu

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Abstract

This paper surveys the contributions and applications of queueing theory in the field of discrete part manufacturing. Provided are concise, descriptive summaries, rather than detailed mathematical models, of the various queueing theory results in the manufacturing context. The survey classifies the contributions into two groups: descriptive (performance analysis) and generative (design, planning, and control). Also reviewed is software based on analytical models in queueing theory, as applied to manufacturing.



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Keywords

Queueing Theory; Performance Analysis; Queueing Networks; Optimization; Manufacturing Systems

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