

Optimal Flow Control In Manufacturing Systems Production Planning And Scheduling

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Optimal Flow Control In Manufacturing

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Optimal Flow Control in Manufacturing Systems: Production ...

Optimal Flow Control in Manufacturing Systems: Production Planning and Scheduling. Oded Maimon, Eugene Khmelnitsky, Konstantin Kogan (auth.) This book presents a unified optimal control approach to a large class of problems arising in the field of production planning and scheduling. It introduces a leading optimal flow control paradigm which results in efficient solutions for planning and scheduling problems.

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A hierarchical framework for the optimal flow control in manufacturing systems. In Proceedings of the Third International Conference on Computer Integrated Manufacturino, (pp. 278-286). Trog, New York, 20-22 May, 1992.

Optimal flow control for continuous-time scheduling in ...

Flow controllers are useful both in the coordination of interconnected flexible manufacturing cells through distributed scheduling policies and in the hierarchical decomposition of the planning and scheduling problem of complex manufacturing systems. Optimal flow-control policies are hedging-point policies characterized by a generally intractable system of stochastic partial differential equations.

Near optimal manufacturing flow controller design ...

In some cases, this is an optimal strategy. In other cases, a more cost-effective strategy is to react the waste with another chemical to make it sellable, or to render it inert. Rick Beaman, P.E., M.S.Ch.E., is senior chemical process engineer and senior associate with SSOE Group, and engineering, procurement, and construction management firm.

5 strategies for optimizing inventory and material flow

An optimal control formulation is established for the dynamic routing problem. A production flow control algorithm is developed based on a combination of mathematical modeling and heuristics. The control policy is simulated and a comparison with the numerical optimal solution shows that it performs well for the instances under consideration.

PRODUCTION FLOW CONTROL FOR A MANUFACTURING SYSTEM WITH ...

1 INTRODUCTION Ever since the pioneering work of Kimemia and Gershwin (1983), there has been considerable interest in modeling and resolving production control problems as optimal control problems for stochastic flow systems. This manufacturing flow control framework assumes that, the prod..

Computation Of Optimal Flow Control Policies Of A ...

Optimal Flow Control for Continuous-time Scheduling in Flexible Manufacturing Systems. International Transactions in Operational Research, 2(4), Khmelnitsky, E., K. Kogan, and O. Maimon. "Optimal Flow Control for Continuous-time Scheduling in Flexible Manufacturing Systems."

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