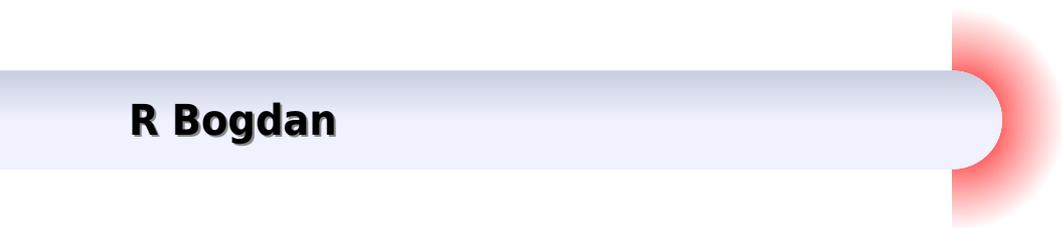


HANDBOOK OF CELLULAR MANUFACTURING SYSTEMS

Handbook Of Cellular Manufacturing Systems Handbook Of Cellular Manufacturing Systems

R Bogdan



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environments capturing the building blocks of lean transformation on a shop floor level

Cellular Manufacturing Systems N. Singh, D. Rajamani, 2012-12-06 Batch manufacturing is a dominant manufacturing activity in the world generating a great deal of industrial output. In the coming years we are going to witness an era of mass customization of products. The major problems in batch manufacturing are a high level of product variety and small manufacturing lot sizes. The product variations present design engineers with the problem of designing many different parts. The decisions made in the design stage significantly affect manufacturing cost, quality, and delivery lead times. The impacts of these product variations in manufacturing are high investment in equipment, high tooling costs, complex scheduling and loading, lengthy setup time, and costs, excessive scrap, and high quality control costs. However, to compete in a global market, it is essential to improve the productivity in small batch manufacturing industries. For this purpose, some innovative methods are needed to reduce product cost, lead time, and enhance product quality to help increase market share and profitability. What is also needed is a higher level of integration of the design and manufacturing activities in a company. Group technology provides such a link between design and manufacturing. The adoption of group technology concepts which allow for small batch production to gain economic advantages similar to mass production while retaining the flexibility of job shop methods will help address some of the problems.

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Advances in Production Management Systems. Artificial Intelligence for Sustainable and Resilient Production Systems Alexandre Dolgui, Alain Bernard, David Lemoine, Gregor von Cieminski, David Romero, 2021-09-01 The five volume set IFIP AICT 630 631 632 633 and 634 constitutes the refereed proceedings of the International IFIP WG 5 7 Conference on Advances in Production Management Systems APMS 2021 held in Nantes France in September 2021 The 378 papers presented were carefully reviewed and selected from 529 submissions They discuss artificial intelligence techniques decision aid and new and renewed paradigms for sustainable and resilient production systems at four wall factory and value chain levels The papers are organized in the following topical sections Part I artificial intelligence based optimization techniques for demand driven manufacturing hybrid approaches for production planning and scheduling intelligent systems for manufacturing planning and control in the industry 4 0 learning and robust decision support systems for agile manufacturing environments low code and model driven engineering for production system meta heuristics and optimization techniques for energy oriented manufacturing systems metaheuristics for production systems modern analytics and new AI based smart techniques for replenishment and production planning under uncertainty system identification for manufacturing control applications and the future of lean thinking and practice Part II digital transformation of SME manufacturers the crucial role of standard digital transformations towards supply chain resiliency engineering of smart product service systems of the future lean and Six Sigma in services healthcare new trends and

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