Application of Artificial Neural Network in Cellular Manufacturing

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Analysis and Experimentation | Today,all over the world, manufacturing industries play an important role in realizing the real prosperity and has to deal most efficiently with the challenges facing the growth of the seller s and buyer s markets towards globalization. This has resulted in the materialization of automated industries with high performance of manufacturing systems. The manufacturing industries are motivated to enhance the productivity and flexibility of the system towards achieving a competitive edge. Cellular Manufacturing Systems (CMS) evolved as an efficient production system, with low set up time, low work-in-process inventory (WIP), short manufacturing lead time, high machine utilization and high quality.The importance of an efficient cell design is underscored by the fact that a properly designed structure is the basis for other tactical decisions related to managing the manufacturing system in the short run.This book provides an in-depth review and analysis of the influence of Artificial neural Network in cellular manufacturing system design and also discusses a hybrid algorithm as a possible solution to the cell design problem. | Format: Paperback | Language/Sprache: english | 136 pp.

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