

MANUFACTURING RESEARCH AND TECHNOLOGY

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Modelling and Design of Flexible Manufacturing Systems

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Modelling And Design Of Flexible Manufacturing Systems

A. Ichikawa, K. Furuta



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Modelling and Design of Flexible Manufacturing Systems Andrew Kusiak, 1986 Design of Flexible Production Systems Tullio Tolio, 2008-12-11

In the last decade the production of mechanical components to be assembled in final products produced in high volumes e.g. cars, mopeds, industrial vehicles etc. has undergone deep changes due to the overall modifications in the way companies compete. Companies must consider competitive factors such as short lead times, tight product tolerances, frequent market changes, and cost reduction. Anyway, companies often have to define production objectives as trade-offs among these critical factors since it can be difficult to improve all of them. Even if system flexibility is often considered a fundamental requirement for firms, it is not always a desirable characteristic of a system because it requires relevant investment cost which can jeopardize the profitability of the firm. Dedicated systems are not able to adapt to changes of the product characteristics while flexible systems offer more flexibility than what is needed, thus increasing investment and operative costs.

Production contexts characterized by mid to high demand volume of well-identified families of products in continuous evolution do not require the highest level of flexibility; therefore, manufacturing system flexibility must be rationalized, and it is necessary to find out the best trade-off between productivity and flexibility by designing manufacturing systems endowed with the right level of flexibility required by the production problem. This new class of production systems can be named Focused Flexibility Manufacturing Systems (FFMSs). The flexibility degree in FFMSs is related to their ability to cope with volume mix and technological changes, and it must take into account both present and future changes. The required level of system flexibility impacts on the architecture of the system, and the explicit design of flexibility often leads to hybrid systems, i.e. automated integrated systems in which parts can be processed by both general purpose and dedicated machines. This is a key issue of FFMSs and results from the matching of flexibility and productivity that respectively characterize FMSs and Dedicated Manufacturing Systems (DMSs).

The market share of the EU in the machine tool sector is 44%; the introduction of focused flexibility would be particularly important for machine tool builders whose competitive advantage is based on the ability of customizing their systems on the basis of needs of their customers. In fact, even if current production contexts frequently present situations which would fit well with the FFMS approach, tradition and know-how of machine tool builders play a crucial role. Firms often agree with the focused flexibility vision; nevertheless, they decide not to pay the risk and efforts related to the design of this new system architecture. This is due also to the lack of well-structured design approaches which can help machine tool builders to configure innovative systems. Therefore, the FFMS topic is studied through the book chapters following a shared mission: To define methodologies and tools to design production systems with a minimum level of flexibility needed to face during their lifecycle the product and process evolution, both in the technological and demand aspects. The goal is to find out the optimal trade-off between flexibility and productivity. The book framework follows the architecture which has been developed to address the FFMS Design problem. This architecture is both

broad and detailed since it pays attention to all the relevant levels in a firm hierarchy which are involved in the system design Moreover the architecture is innovative because it models both the point of view of the machine tool builder and the point of view of the system user The architecture starts analyzing Manufacturing Strategy issues and generating the possible demand scenario to be faced Technological aspects play a key role while solving process plan problems for the products in the part family Strategic and technological data becomes input when a machine tool builder performs system configuration The resulting system configurations are possible solutions that a system user considers when planning its system capacity All the steps of the architecture are deeply studied developing methods and tools to address each subproblem Particular attention is paid to the methodologies adopted to face the different subproblems mathematical programming stochastic programming simulation techniques and inverse kinematics have been used The whole architecture provides a general approach to implement the right degree of flexibility and it allows to study how different aspects and decisions taken in a firm impact on each other The work presented in the book is innovative because it gives links among different research fields such as Manufacturing Strategy Process Plan System Design Capacity Planning and Performance Evaluation moreover it helps to formalize and rationalize a critical area such as manufacturing system flexibility The addressed problem is relevant at an academic level but also at an industrial level A great deal of industrial sectors need to address the problem of designing systems with the right degree of flexibility for instance automotive white goods electrical and electronic goods industries etc Attention to industrial issues is confirmed by empirical studies and real case analyses which are presented within the book chapters

Modeling, Simulation, And Control Of Flexible Manufacturing Systems: A Petri Net Approach Kurapati Venkatesh, Mengchu Zhou, 1999-01-29 One critical barrier leading to successful implementation of flexible manufacturing and related automated systems is the ever increasing complexity of their modeling analysis simulation and control Research and development over the last three decades has provided new theory and graphical tools based on Petri nets and related concepts for the design of such systems The purpose of this book is to introduce a set of Petri net based tools and methods to address a variety of problems associated with the design and implementation of flexible manufacturing systems FMSs with several implementation examples There are three ways this book will directly benefit readers First the book will allow engineers and managers who are responsible for the design and implementation of modern manufacturing systems to evaluate Petri nets for applications in their work Second it will provide sufficient breadth and depth to allow development of Petri net based industrial applications Third it will allow the basic Petri net material to be taught to industrial practitioners students and academic researchers much more efficiently This will foster further research and applications of Petri nets in aiding the successful implementation of advanced manufacturing systems

Flexible Manufacturing Systems in Practice Joseph Talavage, 2020-09-11 This book has been written for all those interested in flexible manufacturing systems FMS and other forms of computerized manufacturing systems CMS It deals with many aspects of the design operation and simulation

of FMS and explains the origins of FMS **Flexible Manufacturing Systems** Horst Tempelmeier, Heinrich Kuhn, 1993-10-13 Now this comprehensive and systematic overview of both the design models and quantitative solution methods for FMS support configuration and operation rectifies that problem Students production managers planners and FMS installation planners can now find everything they need in one authoritative and up to date source **Optimal Design of Flexible Manufacturing Systems** Ulrich A.W. Tetzlaff, 2013-03-09 Flexible manufacturing systems are complex production systems with considerable high investment costs This book intends to show the reader how the design of such a system can be optimized Thereby it addresses the academic world in management science and industrial engineering as well as system planners in industry First the design problems are analysed in detail and a planning concept is presented Afterwards possible tools for the design process are described as there are mathematical programming queueing networks computer simulation perturbation analysis petri nets group technology and knowledge based systems The major part of the book however concerns the description of existing optimization models based on mathematical programming Each model is explained and discussed in detail and for new models developed by the author numerical examples are given Finally some distinct guidelines are presented which help the system planners to select the appropriate model for their planning problems

SIMULATION OF A FLEXIBLE MANUFACTURING SYSTEM: A PILOT IMPLEMENTATION. , 2005 Manufacturing industry has made extensive use of simulation as a means of trying to model the impact of variability on manufacturing system behavior and to explore various ways of coping with change and uncertainty Simulation helps find optimal solutions to a number of problems at both design and application stages of Flexible Manufacturing Systems FMS s serving to improve the flexibility level The flexibility requirement of FMS necessitates the dissemination of every activity that concerns production throughout all the levels of a company forcing almost every level of employee face with simulation software either in terms of preparing models modifying runs or evaluating results This problem of inadequate capability of personnel to utilize simulation effectively can be overcome through the design of custom interfaces and integration of simulation software with everyday use programs This research mainly focuses on realizing the modeling and simulation of FMS s by the use of the existing system in Middle East Technical University Mechanical Engineering Department Computer Integrated Manufacturing Laboratory as a test bed Additionally the means of integration of simulation with auxiliary programs is demonstrated The models developed throughout the study using ARENA are used to come up with different scenarios of production Sample results and decisions about production issues that can be attained through the use of simulation are provided The described model creation procedures the generated models and result assessments are expected to act as a guideline for other simulations regarding FMS s **Modeling, Simulation, and Control of Flexible Manufacturing Systems** MengChu Zhou, Kurapati Venkatesh, 1999 One critical barrier leading to successful implementation of flexible manufacturing and related automated systems is the ever increasing complexity of their modeling analysis simulation and

control Research and development over the last three decades has provided new theory and graphical tools based on Petri nets and related concepts for the design of such systems The purpose of this book is to introduce a set of Petri net based tools and methods to address a variety of problems associated with the design and implementation of flexible manufacturing systems FMSs with several implementation examples There are three ways this book will directly benefit readers First the book will allow engineers and managers who are responsible for the design and implementation of modern manufacturing systems to evaluate Petri nets for applications in their work Second it will provide sufficient breadth and depth to allow development of Petri net based industrial applications Third it will allow the basic Petri net material to be taught to industrial practitioners students and academic researchers much more efficiently This will foster further research and applications of Petri nets in aiding the successful implementation of advanced manufacturing systems

Modeling and Analysis of Manufacturing Systems Ronald G. Askin, Charles R. Standridge, 1993-01-18 Manufacturing models Assembly lines reliable serial systems Transfer lines and general serial systems Shop scheduling with many products Flexible manufacturing systems Machine setup and operation sequencing Material handling systems Warehousing storage and retrieval systems General manufacturing systems analytical queueing models General manufacturing systems empirical simulation models

The Design and Operation of FMS Paul Ránky, 1983 Modelling in Flexible Manufacturing System Design Olugbenga Olufemi Mejabi, 1988 *Models and Methods for the Specification and Design of Flexible Manufacturing Systems* Göran Adamson, 1995 *Modelling the Economic Design of Flexible Manufacturing Systems* Udayan Nandkeolyar, 19??

Performance Modeling of Automated Manufacturing Systems with Unreliable Machines and Random Processing Times Petro Yuanidis, 1992 *Flexible Manufacturing Systems* Fred Choobineh, Rajan Suri, 1986

Handbook of Flexible Manufacturing Systems Nand K. Jha, 2012-12-02 This handbook is a compilation of the current practical knowledge of flexible manufacturing systems FMS FMS allow manufacturing plants of all sizes to reduce their inventory while increasing their ability to meet consumer demands By controlling automatic guided vehicles robots and machine tools with one central computer products can now be produced in a variety of styles and models all at the same time FMS are designed to adapt quickly and economically to changes in requirements and to unpredictable events This guide explains how to effectively employ these useful new systems Includes specifications for software to implement simulation modeling Surveys practical applications in the workplace Presents materials in a step by step workbook style

Advances in Control Education 1994 A. Ichikawa, K. Furuta, 2014-05-23 The implementation of effective control systems can help to achieve a wide range of benefits not least in terms of real cost savings Education plays a vital role in ensuring continued success and its importance is well recognized by IFAC with a specifically designated technical committee in this area This invaluable publication brings together the results of international research and experience in the latest control education techniques as presented at the most recent symposium Information on course curricula is presented as well as teachware

including software and laboratory experimental apparatus *The International Journal, Advanced Manufacturing Technology*, 1988 **Information Technology for Advanced Manufacturing Systems** G. Olling, Ziqiong Deng, 1992 Computer aided manufacturing and design flexible manufacturing computer aided production management and computer integrated manufacturing are widely used in manufacturing enterprise Within these systems information technology has been applied to capture organize manage and display data In the future information technology must also become the catalyst for interaction among workers in these fields in a complete enterprise from concept to product This requires the development of an integrated information system infrastructure The papers in this volume are reports on the theory and current and future applications of information technology The collection presents valuable milestones towards the progress of information technology in advanced manufacturing systems Design of Advanced Manufacturing Systems Andrea Matta, Quirico Semeraro, 2005-04-25 This book presents a framework and specific methods and tools for the selection and configuration of the capacity of Advanced Manufacturing Systems AMS AMS include Flexible Manufacturing Systems Dedicated Manufacturing Systems and Reconfigurable Manufacturing Systems Starting from the characteristic of the competitive environment the directions given by the company strategy data regarding the products and information regarding the different system architectures the decision support system described here aids the decision maker by means of a formalized methodology that follows the various steps required to define the type and timing of capacity acquisition and to define the detailed configuration of AMS along its life cycle The decision making framework and tools illustrated in this volume combine decision making theory optimization theory discrete event simulation and queuing networks It will be of interest to graduate students and researchers involved in manufacturing engineering industrial engineering and operations research

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