

A.Y.C. Nee, K. Whybrew, A. Senthil kumar

ADVANCED FIXTURE DESIGN FOR FMS



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Advanced Manufacturing Series

Advanced Fixture Design For Fms Advanced Manufacturing

Ruben Förstmann



Advanced Fixture Design For Fms Advanced Manufacturing:

Advanced Fixture Design for FMS A.Y.C. Nee,K. Whybrew,A. Senthil kumar,2012-12-06 Fixtures are crucial to new manufacturing techniques and largely dictate the level of flexibility a manufacturing system can achieve Advanced Fixture Design for FMS provides a systematic basis for the selection and design of fixturing systems It gives a review of the current state of the art of flexible and reconfigurable fixturing systems Recent developments in design methodology using CAD are analysed in depth Fixture design is seen as an inseparable part of process planning The primary objective of a fixture system is to ensure that the part being manufactured can be made consistently within the tolerance specified in the design A new method of tolerance analysis is used to check the suitability of location surfaces and the sequence of operations and is explained in detail Advanced Fixture Design Method and Its Application Guohua Qin,2021-04-04 This book uses

kinematics mechanics mathematics and so on to systematically propose the fixturing performance evaluation and fixturing layout planning method The proposed method is a novel method including the analysis method of locating determination the analysis method of workpiece stability the analysis method of clamping reasonability the analysis method of workpiece attachment detachment the analysis method of locating accuracy and the planning algorithm of locating point layout the planning algorithm of clamping force and so forth It can enrich and develop the basic theory of computer aided fixture design change the empirical method of fixture design The combination of theoretical analysis and mathematical modeling technology can resolve the key problems in the process of fixture design which will play a certain role in promoting the progress of manufacturing technology improving the precision and level of product manufacturing and meeting the higher and higher requirements of mechanical manufacturing industry **An Advanced Treatise On Fixture Design And Planning** Andrew Yeh Ching Nee,Zhen Jun Tao,A Senthil Kumar,2004-11-06 Fixtures are an essential part of manufacturing production This book covers computer aided fixture design fixture clamping synthesis and optimisation workpiece fixture interaction intelligent fixture designed to integrate with processing equipment or machine tools so as to improve productivity and product quality Internet enabled fixture design and modular fixture database management These are the emerging issues central to the development of computer integrated manufacturing Covering the established knowledge of fixture design automation and the niche areas of fixture system integration and Internet enabled design the book would be a prevalent reference for academics manufacturing industrial engineers and a valuable text for engineering graduate students

Computer-Aided Injection Mold Design and Manufacture J.Y.H. Fuh,M. W. Fu,A.Y.C. Nee,2004-08-02 Examining processes that affect more than 70 percent of consumer products ranging from computers to medical devices and automobiles this reference presents the latest research in automated plastic injection and die casting mold design and manufacture It analyzes many industrial examples and methodologies while focusing on the algorithms implementation procedures and system architectures that will lead to a fully automated or semi automated computer aided injection mold

design system CADIMDS This invaluable guide in this challenging area of precision engineering summarizes key findings and innovations from the authors many years of research on intelligent mold design technologies **Advances in**

Manufacturing Spyros G. Tzafestas, 2012-12-06 Modern manufacturing systems involve many processes and operations at various hierarchical levels of decision control and execution New applications for systems are arising from the synergy of machines tools robots and computers with management and information technologies Novel systems are designed and put into operation to manufacture old and new high quality products with speed accuracy and economy This book contains over thirty papers that examine state of the art and how to do issues as well as new solutions Topics covered include Process planning scheduling and machine cell design Process monitoring inspection diagnosis and maintenance Forecasting optimization and control Design and control of robotic automated crane systems Applications including laser material processing stereolithography systems alimentary pasta processes and automated robotic road construction and maintenance The book explores key elements and critical factors presents new results and tools that are applicable to real situations

Computer-Assisted Management and Control of Manufacturing Systems Spyros G. Tzafestas, 2012-12-06 Modern manufacturing systems involve many processes and operations that can be monitored and controlled at several levels of intelligence At the highest level there is a computer that supervises the various manufacturing functions whereas at the lowest level there are stand alone computer controlled systems of manufacturing processes and robotic cells Until recently computer aided manufacturing systems constituted isolated islands of automation each oriented to a particular application but present day systems offer integrated approaches to manufacturing and enterprise operations These modern systems known as computer integrated manufacturing CIM systems can easily meet the current performance and manufacturing competitiveness requirements under strong environmental changes CIM systems are much of a challenge and imply a systemic approach to the design and operation of a manufacturing enterprise Actually a CIM system must take into account in a unified way the following three views the user view the technology view and the enterprise view This means that CIM includes both the engineering and enterprise planning and control activities as well as the information flow activities across all the stages of the system **The Prentice Hall Illustrated Handbook of Advanced Manufacturing Methods** Jerome H. Fuchs, 1988

Advanced Tolerancing Techniques Hong-Chao Zhang, 1997-09-30 Advanced Tolerancing Techniques This is the first book to provide a comprehensive coverage of new developments in geometric dimensional tolerancing and statistical tolerancing and to focus on the use of these techniques in a CAD CAM CMM environment The authors explore and explain tolerancing from its history and fundamentals to state of the art techniques They also describe specialized applications of tolerancing in particular industries including automobiles electronics and aerospace *Justifying Investment in Advanced Manufacturing Technology* The Chartered Institute of Management Accountants the Institution of Production Engineers, 2013-11-21 Towards the end of 1983 the Advisory Council for Applied Research and Development ACARD

published a report giving the findings of a working group which had been set up to study the factors which inhibited or supported the introduction of advanced manufacturing technology AMT in engineering manufacture Prominent amongst their findings was that up to that time appraisal of investment in AMT on a short term financial basis was not entirely adequate and that the conventional approach to financial appraisal techniques directed towards an early return on capital invested may be inappropriate Today over three years later advanced manufacturing technology is more widely recognised and is providing a proven solution to survival and growth for manufacturers However many medium and small size companies are still finding great difficulty in the evaluation and justification of investment in this vital area The Institution of Production Engineers therefore set up a special joint working party with The Chartered Institute of Management Accountants to follow up the ACARD report with the objective of examining the whole area of the justification of investment in advanced manufacturing technology

Modellbasierter Ansatz zur automatisierten Gestaltung von Montagevorrichtungen

Ruben Förstmann, 2019-12-11 Produzierende Unternehmen stehen zunehmend vor der Herausforderung Produkte in immer kürzeren Zyklen auf den Markt zu bringen Damit einher geht die Notwendigkeit die Produktionsprozesse parallel zur Produktentwicklung zu qualifizieren und abzusichern Aus den diversen Schnittstellen zwischen diesen beiden Bereichen erwachsen Verzögerungsrisiken im Anlauf wenn z B Betriebsmittel in einer späten Anlaufphase durch eine Änderung der Produktgestalt noch einmal angepasst werden müssen Bekannte Lösungen in diesem Zusammenhang fallen in den Forschungsbereich Computer Aided Fixture Design Eine Analyse der einschlägigen Literatur zeigt dass sich dabei vorrangig mit der automatisierten Herleitung von Spannplänen für Bohr- und Fräsvorrichtungen befasst wird und durchgängig automatisierte Ansätze bislang nicht im Fokus standen bzw an Aspekten wie der Modellierung und Optimierung von Werkstücksteifigkeiten scheitern Vor diesem Hintergrund erfolgt im vorliegenden Werk eine Fokussierung auf Montagevorrichtungen um anhand dieser Betriebsmittelgruppe mit reduziertem Anforderungsprofil eine Grundlage für eine durchgängige Automatisierung der Gestaltungsprozesse zu legen Dafür wird ein hybrider Ansatz vorgestellt der zum einen aus einem automatisierbaren Gestaltungsmodell und zum anderen aus einem Aufbauprinzip besteht das Baukastenelemente sowie additiv gefertigte Elemente berücksichtigt Das zentrale Gestaltungsmodell besteht dabei aus den üblichen Funktions- und Spannmodellen und darüber hinaus aus einem Referenzboxmodell das der Grobstrukturierung der Vorrichtung dient Dazu besteht dieses Modell aus Bauraumvorhalten die einerseits Vorrichtungsbaulemente und andererseits Funktionsräume aus dem Montageprozess in dem die Vorrichtung eingesetzt werden soll repräsentieren Nach Verkettung der Modelle im Hauptteil des Werks erfolgt eine Detaillierung in Form von Modulen und Submodulen sodass eine Verfeinerung des Ansatzes in Algorithmen ermöglicht wird Im Rahmen der Erarbeitung erfolgte die Verfeinerung in einen MatLab Demonstrator der genutzt wird um die Ansätze im letzten Abschnitt des Werks an einem Fallbeispiel aus einer automobilen Kleinserienmontage zu validieren

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