
COMPUTER-AIDED FIXTURE DESIGN



BY HUGH D. COLEMAN, P.E.
TRANSCONSTRUCTION (STEPHENSON) INC.

Computer Aided Fixture Design Manufacturing Engineering And Materials Processing Series55

Bob Campbell

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Computer-Aided Fixture Design Yiming (Kevin) Rong,1999-04-20 Illustrates recently developed fixture design and verification technology focusing on their central role in manufacturing processes The text uses up to date computer technology to minimize costs increase productivity and assure product quality It presents advanced data and analysis that is directly applicable to development of comprehensive com

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Rong,1999-04-20 Illustrates recently developed fixture design and verification technology focusing on their central role in manufacturing processes The text uses up to date computer technology to minimize costs increase productivity and assure product quality It presents advanced data and analysis that is directly applicable to development of comprehensive computer aided modular fixture design system

Production at the Leading Edge of Technology Bernd-Arno Behrens,Alexander

Brosius,Wolf-Guntram Drossel,Wolfgang Hintze,Steffen Ihlenfeldt,Peter Nyhuis,2021-09-04 This congress proceedings provides recent research on leading edge manufacturing processes The aim of this scientific congress is to work out diverse individual solutions of production at the leading edge of technology and transferable methodological approaches In addition guest speakers with different backgrounds will give the congress participants food for thoughts interpretations views and suggestions The manufacturing industry is currently undergoing a profound structural change which on the one hand produces innovative solutions through the use of high performance communication and information technology and on the other hand is driven by new requirements for goods especially in the mobility and energy sector With the social discourse on how we should live and act primarily according to guidelines of sustainability structural change is gaining increasing dynamic It is essential to translate politically specified sustainability goals into socially accepted and marketable technical solutions Production research is meeting this challenge and will make important contributions and provide innovative solutions from different perspectives

Advanced Computer-Aided Fixture Design Yiming (Kevin) Rong, Samuel

Huang,2005-06-14 Fixtures the component or assembly that holds a part undergoing machining must be designed to fit the shape of that part and the type of machining being done This book discusses the fundamentals of Computer Aided Fixture Design CAFD techniques and covers fixture planning fixture design both modular and dedicated fixtures fixture design verifications and the overall integration with CAD CAM The book shows how CAFD may lead to a significant reduction of product and process development time and production cost and how CAFD can increase quality assurance through simulation and science based technical specification and cost estimation in business quoting especially in current supplier based manufacturing It also provides case study examples This book provides a total solution of CAFD including planning design and design verification Practical and comprehensive theoretical analysis of fixturing from real industrial application projects Introduces the integration of fixture design and analysis with CAD CAM so that detailed geometric information can be processed and complex fixture designs can be designed and analyzed

An Introduction to Interactive Computer

Aided Fixture Design Nilesh Sancheti,Wichita State University. Industrial and Manufacturing Engineering Department,2004 **Integrated Process and Fixture Planning** Awais Ahmad Khan,Emad Abouel Nasr,Abdulrahman Al-Ahmari,Syed Hammad Mian,2018-05-20 Fixtures are used in manufacturing to secure working devices They help insure conformity accuracy efficiency and interchangeability their reliability is crucial This book introduces and implements a new methodology for more flexible fixture design and manufacturing processes and develops the supporting technologies for automation and fixture planning using object oriented platforms It also presents an integrated solution with Computer Aided Design CAD applications **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 **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 *Manufacturing Feature-based Workpiece Modeling for Computer-Aided Fixture Design* Venkatragavan Gurusamy,1999 *Concurrent Design of Products, Manufacturing Processes and Systems* Ben Wang,1999-01-27 Methods presented involve the use of simulation and modeling tools and virtual workstations in conjunction with a design environment This allows a diverse group of researchers manufacturers and suppliers to work within a comprehensive network of shared knowledge The design environment consists of engineering workstations and servers and a suite of simulation quantitative computational analytical qualitative and experimental tools Such a design environment will allow the effective and efficient integration of complete product design manufacturing process design and customer satisfaction predictions This volume enables the reader to create an integrated

concurrent engineering design and analysis infrastructure through the use of virtual workstations and servers provide remote instant sharing of engineering data and resources for the development of a product system mechanism part business and or process and develop applications fully compatible with international CAD CAM CAF standards for product representation and modeling

A Study of Case Based Reasoning Applied to Welding Computer Aided Fixture Design Shaun

M. Price,2009 Abstract This thesis focuses on the application of case based reasoning CBR to welding fixtures in a computer aided design CAD environment Modular fixtures have become more popular in previous years due to the creation of flexible manufacturing systems Modular fixtures since they are composed of many standardized parts require much iteration to produce a full fixture design This process is made more complicated when it is applied to more complex parts such as welding assemblies In an effort to simplify fixture design for such complicated parts researchers have been working on integrating fixture design into CAD packages These efforts generally known as computer aided fixture design CAFD do not focus on the transition of experience from more experienced designers but only provide a structure and a virtual environment to create fixtures The research presented in this thesis will apply to this area Case based reasoning CBR is a method of using previous cases to help aid the development of solutions to new problems Applied to CAFD this method is reduced to the application of a database and a retrieval and adaptation system Current research on CAFD and CBR is limited to only proposing systems for machining fixtures This thesis presents a methodology of a CAFD and CBR system that is dedicated to welding assemblies and fixtures The focus is on creating an indexing system that adequately represents the workpiece and fixture a retrieval system that accurately recovers the previous cases and a method that integrates designer feedback in each process The results of this thesis will be shown in a case study using an automobile muffler fixture assembly to define each idea of the methodology and to provide an example

Design for Manufacture John Corbett,1991 This title covers the strategies principles and techniques of manufacturing design

Study of Fixturing Accessibilities in Computer-aided Fixture Design Puja Sudhakar Ghatpande,2008 Abstract Fixtures form an important factor in traditional and modern flexible

manufacturing systems since fixture design directly affects manufacturing quality and productivity Hence it is necessary to evaluate quality of fixture design The fixturing accessibility refers to machining feature accessibility and loading unloading accessibility The development of Computer Aided Fixture Design CAFD has simplified this task Fixture design activities include setup planning fixture planning and fixture configuration design Fixture design verification comes next Fixturing accessibility using Computer Aided Fixture Design is part of the verification process and has not received much attention till date Machining feature accessibility analysis involves the evaluation of possible interference between fixture components and the cutting tool which moves with pre programmed tool path while the loading and unloading accessibility relates to the ease with which the operator attaches detaches the workpiece from the surrounding manufacturing environment This research has three main focuses The first focus is to evaluate machining feature accessibility by integrating fixture designs in

SolidWorks and the NC programming in Esprit The main goals are evaluation of fixture design for any kind of interference between tool workpiece fixtures and enable Esprit to indicate interference if any The next step is to modify the fixture design accordingly and thus finally obtain an interference free fixture design by reiteration The second and third focuses deal with analysis of loading and unloading accessibility A simulation based approach is applied to evaluate loading unloading paths for different workpiece fixture setups and checking interference in a dynamic mode Then the third focus is to develop analysis method and criteria of comparisons of fixturing accessibility in different fixture designs Thus this research establishes methods of analysis for accessibilities in fixture design Also the guidelines for good fixture design will prove to be of great use to both the beginners as well as the experienced fixture designers in this field

Integrated Product Design and Manufacturing Using Geometric Dimensioning and Tolerancing Bob Campbell,2002-09-13 This book addresses the preparation and application of design layout analyses with concurrent engineering teams in six steps that capture design intent and add value to design process It offers tools for eliminating costly trial and error approaches and deliver economically viable products The authors discuss product design techniques that alleviate the constraints between product definition manufacturing and inspection the prediction of variation effects on product function and manufacturing efficiency functional inspection techniques that include CMM measurement optical comparators and surface plate and functional gaging and more

Fixturing Feature Analysis and Fixture Design Planning in Computer-aided Fixture Design Systems Jian Zhu,1994 **An Optimization Approach to the Integration of Computer Aided Fixture Design with Macro Process Planning for Three-dimensional Prismatic Workpieces Manufactured on CNC Machining Centers** Suksan Prombanpong,1990

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 implemen

An optimization approach to the integration of computer-aided fixture design with macro process planning for three-dimensional Suksan Prombanpong,1990 **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 **Design for Manufacturing and Assembly** O. Molloy,E.A. Warman,S. Tilley,2012-12-06 In order to

compete in the current commercial environment companies must produce greater product variety at lower cost all within a reduced product life cycle To achieve this a concurrent engineering philosophy is often adopted In many cases the main realization of this is Design for Manufacture and Assembly DFM A There is a need for in depth study of the architectures for DFM A systems in order that the latest software and knowledge based techniques may be used to deliver the DFM A systems of tomorrow This architecture must be based upon complete understanding of the issues involved in integrating the design and manufacturing domains This book provides a comprehensive view of the capabilities of advanced DFM A systems based on a common architecture

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