



Fig. 5. Machining fixtures (IMMO corp.) [15].

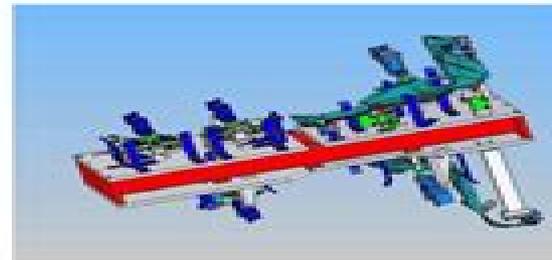


Fig. 5. Automotive stud weld fixtures on a trusion frame, (DBM innovation inc.) [22].



Fig. 3. Machining fixtures of aircraft-used bearing housing.



Fig. 3. Grind fixture for turbine blades (jensraf design, inc.) [20].

advantages in the development and deployment of welding fixture design systems.

There are obvious differences between machining fixture design and welding fixture design. As in the following:



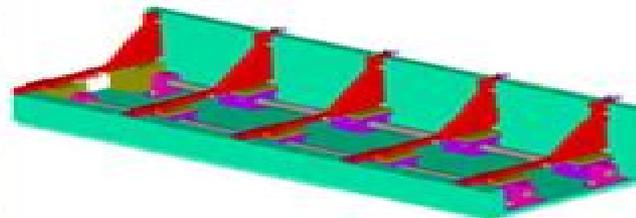
Fig. 4. Assembly fixture to locate shelves for assembly of cabinets (glennier industrial systems LLC) [21].

- The workpiece in a welding process is usually an assembly of several parts, while workpieces undergoing a machining process contain only one part.
- Usually, the accuracy requirement in a welding process is less than in machining.
- Fixing forces and machining forces in a welding process commonly are smaller than in machining.
- Thermal reactions in welding should be seriously considered.

Furthermore, these factors also should be paid some attention in welding fixture design cases:

- Electrical conductivity is critical for arc welding stability.
- In addition to thermal conductivity, when selecting fixture material thermal expansion properties also should be considered.
- Refined welding waveforms require an optimized welding circuit to maintain short arc lengths while reducing spatter, stubbing, arc flare, and arc outages to maximize travel speeds.
- More complex applications may require a dedicated fixture. The design and installation of a dedicated fixture frequently involves installing and routing wiring and pneumatic or hydraulic lines.

In the past decade, only very limited CFD research and applications have been reported in the welding sector. In this field, due to the importance of welding for sheet metal assembly in automobile and aerospace industries, the assembly and welding of sheet metal has received some special attention. A weld fixture is often developed to reduce the deformation of each workpiece due to heat and residual stress in the welding process and, hence, to reduce the dimensional variation of the assembly. Therefore, some methods of offline or online deformation analysis were developed to enhance the fixtures' ability on deformation controlling [8,9]. In



Computer Aided Fixture Design

Robert R. Redfield



Computer Aided Fixture Design:

Advanced Computer-Aided Fixture Design Yiming Rong, Samuel Huang, Zhikun Hou, 2005-05-09 This book can be used as either a textbook for advanced engineering courses or as a reference for engineers in manufacturing and industry The reader will benefit from the techniques introduced in solving production problems will gain the skills to compare fixture design alternatives and will learn to develop applications systems for fixture design and analysis **BOOK JACKET**

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 computer aided modular fixture design system 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 **An Introduction to Interactive Computer Aided Fixture Design** Nilesh

Sancheti, Wichita State University. Industrial and Manufacturing Engineering Department, 2004 *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 Fixturing Feature Analysis and Fixture Design Planning in Computer-aided Fixture Design Systems Jian Zhu, 1994 **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

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

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Manufacturing Feature-based Workpiece Modeling for Computer-Aided Fixture Design Venkatragavan Gurusamy,1999

Representation for Integration of Computer Aided Fixture Design Systems Sertac Pehlivan,2006

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

Locating Error Analysis for Computer-aided Fixture Design and Verification Weizhen Li,1996 *Computer-aided Modular Fixture Design and Assembly* Jianren Dai,1997 *A Computer Aided Fixture Design System for Two Dimensional Prismatic Parts Produced on Machining Centers* Suksan Prombanpong,1986 **Fixture Planning and Configuration Design for Computer-aided Modular Fixture Design** Jun Zhou,1996 **Interactive Computer-aided Modular Fixture Design Based on Locating Method Analysis** Xingsen Li,1996 **DETC2005** ,2005

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