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Parsaei,Thomas R. Hanley,S.S. Kolli,2012-12-06 During the last two decades a tremendous growth in the popularity and applications of computers in manufacturing has occurred Computer aided design computer aided manufacturing flexible manufacturing systems group technology and many others are considered by many manufacturing executives as the most promising technologies and philosophies that if successfully implemented can reduce costs and enable the US manufacturing companies to become more competitive in the global market In the computer integrated manufacturing environment the decision processes are often more involved The decision makers are frequently required to have access to a vast amount of data to support and analyze their complex decision problems at strategic and tactical levels Decision support systems are often referred to as computer based information technologies that allow the decision makers to interactively communicate and solve the decision problems Manufacturing Decision Support Systems is intended to report the latest developments and address the central issues in this area This volume consists of 14 refereed chapters written by leading researchers from academia and industry *Air Force Journal of Logistics* ,1993 **The Design Productivity Debate** Alex H.B.

Duffy,2012-12-06 Over the past decade with greater emphasis being placed upon shorter lead times better quality products reduced product costs and greater customer satisfaction the topic of Engineering Design has received increased interest from the industrial and academic communities Considerable effort has been directed at developing design process methodologies and building computer tools that focus upon relatively narrow aspects of design but many key problems in Engineering Design research and practice remain unanswered Resulting from the First International Engineering Design Debate held in Glasgow UK in late 1996 this volume discusses the main issues concerning the improvement of design productivity Covering design studies design development concurrent engineering and design knowledge and information it attempts to derive a common understanding of the basic factors problems and potential solutions involved **IT Based**

Manufacturing Surender Kumar,S. K. Mukherjee,Vinay Sharma,2003 This monograph provides a logistic view of IT Based manufacturing comprising the concept methodology tools techniques and applications Papers written by experts in their fields are organized into different sections covering cutting processes and machine tools non traditional manufacturing joining and forming manufacturing mechatronics and intelligent manufacturing Comprises of 129 papers presented by both Indian and International Scientists at the 20th All India Manufacturing Technology Design and Research Conference Machining Processes and Machine Tools Non Traditional Manufacturing Forming and Joining Manufacturing Mechatronics Intelligent Manufacturing Related Topics *Knowledge Intensive Computer Aided Design* Susan Finger,Tetsuo

Tomiyama,Martti Mäntylä,2013-03-09 Computer Aided Design CAD technology plays a key role in today s advanced manufacturing environment To reduce the time to market achieve zero defect quality the at first production and use available

production and logistics resources effectively product and design process knowledge covering the whole product life cycle must be used throughout product design Once generated this intensive design knowledge should be made available to later life cycle activities Due to the increasing concern about global environmental issues and rapidly changing economical situation worldwide design must exhibit high performance not only in quality and productivity but also in life cycle issues including extended producer s liability This requires designers and engineers to use various kinds of design knowledge intensively during product design and to generate design information for use in later stages of the product life cycle such as production distribution operation maintenance reclamation and recycling Therefore future CAD systems must incorporate product and design process knowledge which is not explicitly dealt with in the current systems in their design tools and design object models

Journal of Engineering Education ,1996 **Fifth International Conference on Factory 2000 - the Technology Exploitation Process, 2-4 April, 1997** ,1997 *Noise Control Engineering Journal* ,1992 Special Issue--object-oriented Concurrent Engineering ,1994 *S.A.M. Advanced Management Journal* ,1991 Journal of Design and Manufacturing ,1995 Naval Engineers Journal ,1999 *Journal of Engineering for Gas Turbines and Power* ,2003 **Texas Instruments Technical Journal** ,1993 International Journal of Systems Automation, Research & Applications ,1992 International Journal of Business Performance Management ,2004 **International Journal of Production Economics** ,2001 **International Journal of Technology Management** ,1996 Journal of Research and Practice in Information Technology ,2004

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