

Concurrent Engineering Applications in Mexico: two case studies

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Abstract

The result of a study in the area of Concurrent Engineering in Mexican Companies is presented in this paper. This study identified the following major issues: the need to train/educate engineers in CE and to support design process automation, the lack of standardized product definitions and design for manufacture rules, and the necessity to introduce social-technical design concepts and cooperative design methods. From the 12 companies analyzed, two were selected to reengineer their design process in order to improve their product development processes. The process and information collected was used to develop two Computer Aided Engineering Systems to support Concurrent Engineering: Concurrent Design System for Automotive Part Dies and Integrated Development Environment of Glass Products.

Keywords

Concurrent Engineering, Assessment Tool, Process Models, Information Models, CAE System

1 INTRODUCTION

Mexico is playing a leading role in the Latin American manufacturing industry. The NAFTA agreement has forced Mexican companies, especially Automotive Parts Manufacturers, to implement new philosophies in order to become more competitive. The major approaches being used are: Concurrent Engineering/Simultaneous Engineering and Agile Manufacturing.

In order to support Mexican Manufacturing Companies, ITESM (Instituto Tecnológico y de Estudios Superiores de Monterrey), the largest private university

Concurrent Engineering Case Studies

Lingsheng Yao



Concurrent Engineering Case Studies:

Successful Implementation of Concurrent Engineering Products and Processes Sammy G. Shina,1993-12-16 This working guide shows how to put concurrent engineering principles into action using actual case examples from large and small companies The case study approach is augmented with detailed advice and techniques for measuring and analyzing product and process development data A must have reference for every designer and firm that plans or contemplates this efficient and profitable method

Innovations in Competitive Manufacturing Paul M. Swamidass,2012-12-06 *Innovations in Competitive Manufacturing* is an examination of manufacturing innovations both technical and knowledge based Over the recent past technology has created dramatic changes in manufacturing As a result the book focuses on the use of technology in gaining competitive advantage in global manufacturing Forty topics are surveyed in the book organized into thirteen chapters Each topic is a carefully written account by one or more leading researchers in that area This is the first systematic examination of the recent innovations in manufacturing strategy and technology In addition to providing an understanding of these manufacturing innovations the book underscores the strategic importance of creating and sustaining the technological resources to ensure a stable manufacturing economic base The book s purpose is to examine the elements that make today s manufacturers successful Many examples from industry throughout the book will enable the reader to appreciate and comprehend the concepts presented in the article In addition to the technical and innovative information implementation issues concerning new ideas and manufacturing practices are explored within the topical discussions Four in depth descriptions of real life cases provide illustration of key principles The book has been constructed as a reference tool for manufacturing researchers students and practitioners Hence after reading the introduction *Innovation in Competitive Manufacturing From JIT to E Business* any section or topic in the book can be consulted and or read in any sequence the reader may choose

Proceedings of the Second European Conference on Computer-Supported Cooperative Work Liam Bannon, Mike Robinson, K. Schmidt,2012-12-06

Encyclopedia of Production and Manufacturing Management Paul M. Swamidass,2006-09-21 The *Encyclopedia of Production and Manufacturing Management* is an encyclopedia that has been developed to serve this field as the fundamental reference work Over the past twenty years the field of production and operations management has grown more rapidly than ever and consequently its boundaries have been stretched in all directions For example in the last two decades production and manufacturing management absorbed in rapid succession several new production management concepts manufacturing strategy focused factory just in time manufacturing concurrent engineering total quality management supply chain management flexible manufacturing systems lean production and mass customization to name a few This explosive growth makes the need for this volume abundantly clear The manufacturing industry thinks and acts more broadly than it did several decades ago The most notable change has been the need for manufacturing managers to think in technological strategic and competitive terms This is a very favorable development and

it leads to manufacturing success The entries in this encyclopedia include the most recent technical and strategic innovations in production and manufacturing management The encyclopedia consists of articles of varying lengths The longer articles on important concepts and practices range from five to fifteen pages There are about 100 such articles written by nearly 100 authors from around the world In addition there are over 1000 shorter entries on concepts practices and principles The range of topics and depth of coverage is intended to suit both student and professional audiences The shorter entries provide digests of unfamiliar and complicated subjects Difficult subjects are made intelligible to the reader without oversimplification The strategic and technological perspectives on various topics give this Encyclopedia its distinctiveness and uniqueness The world of manufacturing today is increasingly competitive It is apparent that manufacturers must respond to these competitive pressures with technical and strategic innovation This encyclopedia has been developed to help researchers students and those in the manufacturing industry to understand and implement these ongoing changes in the field

Challenges in Organizing and Managing Integrated Product Development Processes P. M. Wognum, P. C. de Weerd-Nederhof, H. Boer, 1997

An Investigation of Schedule Reduction Techniques for the Engineering and Construction Industry Neil N. Eldin, 1996

Concurrent Engineering John R. Hartley, 2017-09-20 By simultaneously examining the concerns of design production purchasing finance and marketing from the very first stages of product planning concurrent engineering makes doing it right the first time the rule instead of the exception This should be the first book managers read when they are ready to eliminate waste in the product development process An introductory handbook it gives managers 16 clear guidelines for achieving concurrent engineering and contains abundant case studies of Japanese U S and European company success stories The book also Defines the concurrent engineering task force as a full time multidisciplinary unit of operation Discusses the necessary interdependence of concurrent engineering Quality Function Deployment Total Quality Control and CAD CAM Shows how concurrent engineering can be structured to fit your company and used to gain flexibility and efficiency

Concurrent Engineering Chanan S. Syan, Unny Menon, 1994 One Concurrent Engineering Concepts Definitions and Issues 1 Introduction to concurrent engineering 2 Concurrent engineering case studies lessons from Ford Motor Company experience Organizational and managerial issues Design maturity Two Essential Techniques for Concurrent Engineering 5 Quality function deployment an overview 6 Design for manufacture Design for assembly Rapid prototyping of physical parts Rapid prototyping of software and hybrid systems Three Product Design Support and Management Tools for Concurrent Engineering 10 Software tools for the product development process 11 The role of knowledge based systems in concurrent engineering 12 Software solutions for concurrent engineering II 13 Strategies for concurrent engineering and sources of further information

Strategic Management of the Manufacturing Value Chain Umit S. Bititci, Allan S. Carrie, 1998-08-31 Today the Scottish electronics industry employs 40 000 people directly and a further 30 000 in the supply infrastructure There are now more than 550 electronic manufacturing and supplier companies

in Silicon Glen In terms of the contribution to the economy electronics is by far the most valuable industry Its value in 1996 was approximately 10billion and accounted for more than half of Scotland s exports The major product groupings within the industry include PCs laptops and workstations Disk drives cable harnessing Printers keyboards and peripherals Semiconductor devices and PCBs TV VCRs CDs stereos and other consumer electronics Cellular phones and telecommunications products A TMs and funds transfer systems Networking and security systems Navigation and sonar systems Microwave products Power supplies Software and compilers Many of these companies are multi national OEMs who came to Scotland as inward investing companies Early inward investing companies were from USA followed by companies from Japan and more recently from Taiwan and Korea An important segment of the industry is involved in the manufacture of computers including IBM Compaq Digital and Sun In fact approximately 40% of the PCs sold in Europe are built in Scotland With five of the world s top eight computer manufacturers locating a manufacturing base in Scotland there has been an attraction for foreign companies keen to provide service for these multinationals In 1995 96 the supply base output was worth 1

Flexible Automation and Integrated Manufacturing 1993 M Ahmad,William G. Sullivan,1993-09-21
Proceedings of the Flexible Automation and Integrated Manufacturing Conference held in Limerick Ireland in June 1993

Concurrent Engineering Andrew Kusiak,1993-01-12 Presents a top down approach to the design development testing and recyclability of products components and systems across a wide range of industries Starting with the desired result and working back through the details it shows how to produce goods taking into account the challenges of actual manufacture what the reliability requirements should be quality control associated costs customer needs and more Additional features include case studies and team negotiating Also well illustrated with figures photographs charts and tables and includes an extensive bibliography

Fifth International Conference on Factory 2000 - the Technology Exploitation Process, 2-4 April, 1997, 1997

IEEE/CHMT International Electronic Manufacturing Technology Symposium, 1991 **Design for**
Manufacture American Society of Mechanical Engineers. Winter Annual Meeting,1992 *Program Manager*, 1990

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