

# Concurrent Engineering Case Studies

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## PEREZ DUKE

*Proceedings of the Thirtieth International MATADOR Conference* Routledge

As a concept, Concurrent Engineering (CE) initiates processes with the goal of improving product quality, production efficiency and overall customer satisfaction. Services are becoming increasingly important to the economy, with more than 60% of the GDP in Japan, the USA, Germany and Russia deriving from service-based activities. The definition of a product has evolved from the manufacturing and supplying of goods only, to providing goods with added value, to eventually promoting a complete service business solution, with support from introduction into service and from operations to decommissioning. This book presents the proceedings of the 20th ISPE International Conference on Concurrent Engineering, held in Melbourne, Australia, in September 2013. The conference had as its theme Product and Service Engineering in a Dynamic World, and the papers explore research results, new concepts and insights covering a number of topics, including service engineering, cloud computing and digital manufacturing, knowledge-based engineering and sustainability in concurrent engineering.

**NASA-LaRC Flight-Critical Digital Systems Technology Workshop** Nova Publishers

In the area of computer-integrated manufacturing, concurrent engineering is recognized as the manufacturing philosophy for the next decade.

*Managing Innovation* Springer Science & Business Media

"Part 0 is a simulated 3D eBook on DVD, approximately 400 screens, is an interactive browser readable multimedia electronic book, containing several important text, diagrams, images, calculations, interactive 3D & 360 degree panorama objects, video clips, spreadsheets etc., the design team needs to calculate with using their own data. Parts 1 to 3 are DVD videos taped in the USA, Europe, Hong Kong, China and Japan, illustrating the importance of industrial design with ergonomics with several examples. Key subjects introduced include the following: What is industrial design? What is ergonomics, or in other words human factors engineering? What is aesthetics and how does it fit into the subject area? What is usability, and why is this important for industrial design and ergonomics? Why is fashion, and also the cultural setting within which the particular fashion style is implemented and practiced important in industrial design with ergonomics? How does art fit into all this?, and others."--Site web de l'éditeur.

*Complex Systems Concurrent Engineering* Springer

The proceedings contain papers accepted for the 17th ISPE International Conference on Concurrent Engineering, which was held in Cracow, Poland, September 6-10, 2010. Concurrent Engineering (CE) has a history of over twenty years. At first, primary focus was on bringing downstream information as much upstream as possible, by introducing parallel processing of processes, in order to prevent errors at the later stage which would sometimes cause irrevocable damage and to reduce time to market. During the period of more than twenty years, numerous new concepts, methodologies and tools have been developed. During this period the background for engineering/manufacturing has changed extensively. Now, industry has to work with global markets. The globalization brought forth a new network of experts and companies across many different domains and fields in distributed environments. These collaborations integrated with very high level of professionalism and specialisation, provided the basis for innovations in design and manufacturing and succeeded in creating new products on a global market.

*Changes in Business and Society in the Digital Era* Springer Science & Business Media

*Advances in Concurrent Engineering*CE97 ProceedingsCRC Press

*20th ISPE International Conference on Concurrent Engineering* Springer Science & Business Media

This volume contains papers presented during the science trace at the 4th International Conference of Business Information Systems, BIS 2000, held in Poznan, Poland, 12-13 April 2000, which discussed the development, implementation, applications and improvement of computer systems for business processes. The papers deal with practical, industry experiences and validated prototype implementations, and cover areas such as integration of information systems, electronic transactions and banking, virtual organisations, network technologies, business information systems modelling and analysis.

*Strategic Management of the Manufacturing Value Chain* CRC Press

Transdisciplinary engineering transcends other inter- and multi-disciplinary ways of working, such as Concurrent Engineering (CE). In particular, transdisciplinary processes are aimed at solving complex, ill-defined problems, or problems for which the solution is not immediately obvious. No one discipline or single person can provide sufficient knowledge to solve such problems, so collaboration is essential. This book presents the proceedings of the 27th ISTE International Conference on Transdisciplinary Engineering, organized by Warsaw University of Technology, Poland, from 1-10 July 2020. ISTE2020 was the first of this conference series to be held virtually, due to the COVID-19 restrictions. Entitled Transdisciplinary Engineering for Complex Socio-technical Systems - Real-life Applications, the book includes 71 peer-reviewed papers presented at the conference by authors from 17 countries. These range from theoretical and conceptual to strongly pragmatic and addressing industrial best practice and, together with invited talks, they have been collated into 9 sections: Transdisciplinary Engineering (7 papers); Transdisciplinary Engineering Education (4 papers); Industry 4.0, Methods and Tools (7 papers); Human-centered Design (8 papers); Methods and Tools for Design and Production (14 papers); Product and Process Development (9 papers); Knowledge and Data Modeling (13 papers); Business Process and Supply Chain Management (7 papers); and Sustainability (2 papers). The book provides an overview of new approaches, methods, tools and their applications, as well as current research and development, and will be of interest to researchers, design practitioners, and educators working in the field.

**Proceedings of the 27th ISTE International Conference on Transdisciplinary Engineering, July 1 - July 10, 2020** Springer Science & Business Media

These Proceedings are based on the Fifth International Conference on Space Structures, organised by the University of Surrey. Produced as a 2-volume set, they contain original and innovative information on space structures from leading engineers and architects from around the world.

*Innovations in Competitive Manufacturing* Gower Publishing, Ltd.

The CE Conference series is organized annually by the International Society for Productivity Enhancement (ISPE) and constitutes an important forum for international scientific exchange on concurrent and collaborative enterprise engineering. These international conferences attract a significant number of researchers, industrialists and students, as well as government

representatives, who are interested in the recent advances in concurrent engineering research and applications. Concurrent Engineering Approaches for Sustainable Product Development in a Multi-Disciplinary Environment: Proceedings of the 19th ISPE International Conference on Concurrent Engineering contains papers accepted, peer reviewed and presented at the annual conference held at the University of Applied Sciences in Trier, Germany, from 3rd-7th of September 2012. This covers a wide range of cutting-edge topics including: Systems Engineering and Innovation Design for Sustainability Knowledge Engineering and Management Managing product variety Product Life-Cycle Management and Service Engineering Value Engineering *Concurrent Engineering and Design for Manufacture of Electronics Products* Springer Science & Business Media

An explanation of the disciplines of Genba Kanri. The book looks at management practices required for GK disciplines to function and aims to show how, by connecting "people" concerns with the operational aspects of manufacturing, GK can improve management and productivity.

*Foundations, Developments and Challenges* John Wiley & Sons

Contains papers on the advances in Concurrent Engineering research and applications. This book focuses on developing methodologies, techniques and tools based on Web technologies required to support the key objectives of Concurrent Engineering.

*Concurrent Engineering* IOS Press

Concurrent Engineering (CE) is a systematic approach to the integrated and concurrent design of products and related processes, including aspects as diverse as manufacture and support. It is only now being carefully applied to the construction sector and offers considerable potential for increasing efficiency and effectiveness. It enables developers to consider all elements of a building or structure's life cycle from the conception stage right through to disposal, and to include issues of quality, cost, schedule, and user requirements. Drawing together papers that reflect various research efforts on the implementation of CE in construction projects, Concurrent Engineering in Construction presents construction professionals and academics with the key issues and technologies important for CE's adoption, starting with fundamental concepts and then going on to the role of organisational enablers and advanced information and communication technologies, then providing conclusions and suggestions of future directions.

*Implementing Concurrent Engineering in Small Companies* Springer Science & Business Media

This book is intended to introduce and familiarize design, production, quality, and process engineers, and their managers to the importance and recent developments in concurrent engineering (CE) and design for manufacturing (DFM) of new products. CE and DFM are becoming an important element of global competitiveness in terms of achieving high-quality and low-cost products. The new product design and development life cycle has become the focus of many manufacturing companies as a road map to shortening new product introduction cycles, and to achieving a quick ramp-up of production volumes. Customer expectations have increased in demanding high-quality, functional, and user-friendly products. There is little time to waste in solving manufacturing problems or in redesigning products for ease of manufacture, since product life cycles have become very short because of technological breakthroughs or competitive pressures. Another important reason for the increased attention to DFM is that global products have developed into very opposing roles: either they are commodities, with very similar features, capabilities, and specifications; or they are very focused on a market niche. In the first case, the manufacturers are competing on cost and quality, and in the second they are in race for time to market. DFM could be a very important competitive weapon in either case, for lowering cost and increasing quality; and for increasing production ramp-up to mature volumes.

*Shortening Lead Times, Raising Quality, and Lowering Costs* Gower Publishing, Ltd.

These proceedings contain lectures presented at the NATO Advanced Study Institute on Concurrent Engineering Tools and Technologies for Mechanical System Design held in Iowa City, Iowa, 25 May -5 June, 1992. Lectures were presented by leaders from Europe and North America in disciplines contributing to the emerging international focus on Concurrent Engineering of mechanical systems. Participants in the Institute were specialists from throughout NATO in disciplines constituting Concurrent Engineering, many of whom presented contributed papers during the Institute and all of whom participated actively in discussions on technical aspects of the subject. The proceedings are organized into the following five parts: Part 1 Basic Concepts and Methods Part 2 Application Sectors Part 3 Manufacturing Part 4 Design Sensitivity Analysis and Optimization Part 5 Virtual Prototyping and Human Factors Each of the parts is comprised of papers that present state-of-the-art concepts and methods in fields contributing to Concurrent Engineering of mechanical systems. The lead-off papers in each part are based on invited lectures, followed by papers based on contributed presentations made by participants in the Institute.

*Small and Medium Enterprises in Asian Pacific Countries: Development prospects* Springer

This volume features the proceedings of the 14th ISPE Conference on Concurrent Engineering, held in São José dos Campos, São Paulo, Brazil, on the 16th - 20th of July 2007. It highlights the application of concurrent engineering to the development of complex systems.

*Moving Integrated Product Development to Service Clouds in the Global Economy* Springer Science & Business Media

BACKGROUND There is an increasing awareness that 'time to market' is the key competitive issue in the manufacturing industry today. The global markets are demanding products that are well designed, are of high quality and are at low prices with ever decreasing lead times. Hence manufacturers are forced to utilize the best methods of technology with efficient control and management accompanied by suitably enabling organizational structures. Concurrent engineering (CE) is widely seen to be the methodology that can help satisfy these strenuous demands and keep the profitability and viability of product developers, manufacturers and suppliers high. There have been many reported successes of CE in practice. Rover were able to launch Land Rover Discovery in 18 months as compared with 48-63 months for similar products in Europe. Because of its early introduction to the market it became the best selling product in its class. AT&T report part counts down to one ninth of their previous levels and quality one hundred times (in surface defects) for VLSI (very improvements of large scale integration) circuits as a result of using the CE approach. WHO SHOULD READ THIS TEXT? This book will aim to provide a sound basis for the very diverse subject known as concurrent engineering. Concurrent engineering is recognized by an increasingly large proportion of the manufacturing industry as a necessity in order to compete in today's markets. This recognition has created the demand for information, awareness and training in good concurrent engineering practice.

Concurrent Engineering John Wiley & Sons

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.

Concurrent Engineering IOS Press

These books provides an overall account of small and medium enterprises in selected Asia-Pacific countries such as Singapore, Malaysia, South Korea, Thailand, Philippines, China, Indonesia, Japan, Australia, New Zealand, United Kingdom and Canada. All of these countries have given high policy

agenda on the development of small and medium enterprises since SMEs contribute significantly to the respective national economic development. The books therefore provides various experiences on SMEs, issues and challenges, incentive and policies adopted by various governments and, more significantly, prospects for growth and development potential of SMEs in the new millennium.

*Automation, Tools, and Techniques* CRC Press

Concurrent engineering (wherein all the essential functions for new product development and distribution are carried out concurrently) is a recently developed method that 1) reduces the time required to commercialize a new product and take it to market, and 2) enables time and cost schedules to be more realistically estimated. Based on the author's extensive experience in industry in new product development, this volume explores concurrent management of projects based on concurrent engineering. Provides a complete, step-by-step, Total Quality Management procedure (with sample case studies) for implementing concurrent engineering in the planning, scheduling, and controlling of technical projects, and broadens the scope to include other key functions such as marketing, materials management, industrial design, finance and human resources. Unlike most other books that focus more on controlling the project after it begins, this volume emphasizes that the best way of controlling the project is by sound planning and realistic scheduling before the project begins. For Project Managers; Manufacturing, Mechanical, and Electrical Engineers working in a concurrent environment; and for Quality Engineering and Management practitioners.

*Advances in Concurrent Engineering* Springer Science & Business Media

Documents the conference with 57 papers. Among the topics are a multicriteria decision making approach to concurrent engineering in product design, a morphological heuristic for scheduling, multiple-viewpoint computer-aided design models for automotive body-in-white design, product development pract