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Steel Castings Handbook, 6th Edition

ASM International

Concurrent Engineering Techniques and Applications

Advances in Theory and Applications

Elsevier *Concurrent Engineering Techniques and Applications* reviews advances in concurrent engineering techniques and applications. An in-depth treatment of the quantitative and economic aspects of concurrent engineering is presented, with emphasis on techniques for measuring the performances of concurrent engineering and for comparing its economic effectiveness with that of traditional engineering. Open systems software standards in concurrent engineering are also discussed. Comprised of 12 chapters, this volume begins with an introduction to techniques for measuring the performances of concurrent engineering and for comparing its economic effectiveness with that of traditional engineering. The next chapter deals with open systems software standards and how to use open systems products effectively in concurrent engineering. The discussion then turns to concurrent

product design and manufacturing; the essential issues involved in design-decision support in concurrent/simultaneous engineering; design for manufacturing and assembly and concurrent engineering in electro-optical systems; and the use of visualization in concurrent engineering. The use of multimedia presentation techniques and technology in the concurrent engineering process is also considered, along with techniques in technical documentation. This monograph will be useful to students, academicians, practicing professionals, and research workers.

Design for Manufacturability & Concurrent Engineering

How to Design for Low Cost, Design in High Quality, Design for Lean Manufacture, and Design Quickly for Fast Production

International Business

Theory and Practice

SAGE What is international business? How does it differ from local or national business? What are the fundamental challenges and emerging trends in international business? What is the impact of globalization, corporate social responsibility, and the ever expanding use of digital technology on corporate strategies and executive decisions? International Business: Theory and Practice addresses these questions by providing the student with a broad overview of the subject, while guiding readers through the practical issues and context of international business with the use of a range of examples, cases and discussion questions drawn from around the world. Current critical issues in international business are analysed and explored: corporate social responsibility in an era of unprecedented globalization, the rise of the global entrepreneur and the 'democratization' of competition worldwide, and applications of technology in a digital economy. Key Features: - Unpacks the complex issues facing both multi-national enterprises (MNE) and international small and medium enterprises (SME) - Contains a full range of learning features including international case studies, explanations of key terms, a glossary, and annotated further reading - A dedicated companion website with material to support both lecturers and students. Visit the Companion Website at www.sagepub.co.uk/menipaz

Complex Systems Concurrent Engineering

Collaboration, Technology Innovation and Sustainability

Springer Science & Business Media 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.

Supply Chain Management

A Learning Perspective

Cambridge University Press Offers a new learning perspective; focuses on the organisational level and emphasises the systemic approach to supply chain management.

New World Situation: New Directions in Concurrent Engineering

Proceedings of the 17th ISPE International Conference on Concurrent Engineering

Springer Science & Business Media 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.

Concurrent Engineering in Construction Projects

Routledge 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.

Advances in Concurrent Engineering

CE96 Proceedings

CRC Press

CAD/CAM/CIM

New Age International The Technology Of Cad/Cam/Cim Deals With The Creation Of Information At Different Stages From Design To Marketing And Integration Of Information And Its Effective Communication Among The Various Activities Like Design, Product Data Management, Process Planning, Production Planning And Control, Manufacturing, Inspection, Materials Handling Etc., Which Are Individually Carried Out Through Computer Software. Seamless Transfer Of Information From One Application To Another Is What Is Aimed At. This Book Gives A Detailed Account Of The Various Technologies Which Form Computer Based Automation Of Manufacturing Activities. The Issues Pertaining To Geometric Model Creation, Standardisation Of graphics Data, Communication, Manufacturing Information

Creation And Manufacturing Control Have Been Adequately Dealt With. Principles Of Concurrent Engineering Have Been Explained And Latest Software In The Various Application Areas Have Been Introduced. The Book Is Written With Two Objectives To Serve As A Textbook For Students Studying Cad/Cam/Cim And As A Reference Book For Professional Engineers.

Program Manager

The Defense Systems Management College Newsletter

Information Management in Computer Integrated Manufacturing A Comprehensive Guide to State-of- the-Art CIM Solutions

Springer Science & Business Media This book presents a modern and attractive approach to computer integrated manufacturing (CIM) by stressing the crucial role of information management aspects. The 31 contributions contained constitute the final report on the EC Project TEMPUS No. 2609 aimed at establishing a new curriculum and regular education in the new field of information management in CIM at European universities. Much attention was paid to the style of writing and coverage of the important issues. Thus the book is particularly suited as a text for students and young scientists approaching CIM from different directions; at the same time, it is a comprehensive guide for industrial engineers in machine engineering, computer science, control engineering, artificial intelligence, production management, etc.

Virtual Prototyping

Virtual environments and the product design process

Springer A virtual prototype is a major interim step towards the creation of a virtual environment. This book explores the simulation, interaction, concepts and tools of virtual prototypes and environments. It provides a mixture of state-of-the-art, advanced research and industrial papers.

Mechanical System Design

PHI Learning Pvt. Ltd.

Making the Numbers Count

The Accountant as Change Agent on the World-Class Team

CRC Press The first edition of Brian Maskell's now classic work proved that when given the chance, accountants would prefer not to serve out their working days as number crunching automatons. With its energetic tone and common sense approach, the book inspired numbers people at all levels to become true allies in their companies lean revolutions. It enco

Concurrent Engineering Approaches for Sustainable Product Development in a Multi-Disciplinary Environment

Proceedings of the 19th ISPE International Conference on Concurrent Engineering

Springer Science & Business Media 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

Information System Development

Improving Enterprise

Communication

Springer Information System Development—Improving Enterprise Communication are the collected proceedings of the 22nd International Conference on Information Systems Development: Improving Enterprise Communication—ISD 2013 Conference, held in Seville, Spain. It follows in the tradition of previous conferences in the series in exploring the connections between industry, research and education. These proceedings represent ongoing reflections within the academic community on established information systems topics and emerging concepts, approaches and ideas. It is hoped that the papers herein contribute towards disseminating research and improving practice. The conference tracks highlighted at the 22nd International Conference on Information Systems Development (ISD 2013) were: Applications Data and Ontologies End Users Enterprise Evolution Industrial cases in ISD Intelligent Business Process Management Model Driven Engineering in ISD New Technologies Process Management Quality

Digital Transformation and New

Challenges

Changes in Business and Society in

the Digital Era

Springer Nature This book gathers the best papers presented at the second conference held by the Russian chapter of the Association for Information Systems (AIS), which took place in Yekaterinburg, Russian Federation, in December 2019. It shares the latest insights into various aspects of the digitalization of the economy and the consequences of transformation in public administration, business and public life. Integrating a broad range of analytical perspectives, including economic, social and technological, this interdisciplinary book is particularly relevant for scientists, digital technology users, companies and public institutions.

Practical Finite Element Analysis

FINITE TO INFINITE Highlights of the book: Discussion about all the fields of Computer Aided Engineering, Finite Element Analysis Sharing of worldwide experience by more than 10 working professionals Emphasis on Practical usage and minimum mathematics Simple language, more than 1000 colour images International quality printing on specially imported paper Why this book has been written ... FEA is gaining popularity day by day & is a sought after dream career for mechanical engineers. Enthusiastic engineers and managers who want to refresh or update the knowledge on FEA are encountered with volume of published books. Often professionals realize that they are not in touch with theoretical concepts as being pre-requisite and find it too mathematical and Hi-Fi. Many a times these books just end up being decoration in their book shelves ... All the authors of this book are from IITs & IISc and after joining the industry realized gap between university education and the practical FEA. Over the years they learned it via interaction with experts from international community, sharing experience with each other and hard route of trial & error method. The basic aim of this book is to share the knowledge & practices used in the industry with experienced and in particular beginners so as to reduce the learning curve & avoid reinvention of the cycle. Emphasis is on simple language, practical usage, minimum mathematics & no pre-requisites. All basic concepts of engineering are included as & where it is required. It is hoped that this book would be helpful to beginners, experienced users, managers, group leaders and as additional reading material for university courses.

Leading the Web in Concurrent Engineering

Next Generation Concurrent Engineering

IOS Press 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.

20th ISPE International Conference on Concurrent Engineering

Proceedings

IOS Press 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.

Concurrent Engineering, 1992

Presented at the Winter Annual Meeting of the American Society of Mechanical Engineers, Anaheim, California, November 8-13, 1992

American Society of Mechanical Engineers

Design Engineering and Science

Springer Nature Design Engineering and Science teaches the theory and practice of axiomatic design (AD). It explains the basics of how to conceive and deliver solutions to a variety of design problems. The text shows how a logical framework and scientific basis for design can generate creative solutions in many fields, including engineering, materials, organizations, and a variety of large systems. Learning to apply the systematic methods advocated by AD, a student can construct designs that lead to better environmental sustainability and to increased quality of life for the end-user at the same time reducing the overall cost of the product development process. Examples of previous innovations that take advantage of AD methods include: • on-line electric vehicle design for electric buses with wireless power supply; • mobile harbors that allow unloading of large ships in shallow waters; • microcellular plastics with enhanced toughness and lower weight; and •

organizational changes in companies and universities resulting in more efficient and competitive ways of working. The book is divided into two parts. Part I provides detailed and thorough instruction in the fundamentals of design, discussing why design is so important. It explains the relationship between and the selection of functional requirements, design parameters and process variables, and the representation of design outputs. Part II presents multiple applications of AD, including examples from manufacturing, healthcare, and materials processing. Following a course based on this text students learn to create new products and design bespoke manufacturing systems. They will gain insight into how to create imaginative design solutions that satisfy customer needs and learn to avoid introducing undue complexity into their designs. This informative text provides practical and academic insight for engineering design students and will help instructors teach the subject in a novel and more rigorous fashion. Their knowledge of AD will stand former students in good stead in the workplace as these methods are both taught and used in many leading industrial concerns.

Concurrent Engineering Automation, Tools, and Techniques

John Wiley & Sons 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.

Advances In Manufacturing Technology VIII Proceedings Of The 10th National Conference On Manufacturing Research

CRC Press This volume comprises the Proceedings of the Tenth National Conference on Manufacturing Research held at the University of Technology, Loughborough, UK, in September 1994, the latest in a series of meetings first convened in 1985, and the first to be published by Taylor & Francis Ltd.; Keith Case and Steven Newman, the

Conference Chairs, the book contains R. H. Weston's keynote address, "Requirements and Trends in Manufacturing Systems", and over 140 contributions, which together represent the leading edge, state-of-the-art knowledge in the area of manufacturing and production engineering and management. The contributions are organized by theme: process planning; systems integration and modelling; simulation and scheduling; concurrent engineering and design; process control; and inspection; and thus demonstrate the enormous range of topics that manufacturing research embraces and their relevance to improving current industrial practice.

Flexible Automation and Integrated Manufacturing 1993

CRC Press Proceedings of the Flexible Automation and Integrated Manufacturing Conference held in Limerick, Ireland, in June 1993

Determination of Concurrent Software Engineering Use in the United States

Universal-Publishers Scope of Study: This dissertation summarizes the current use of concurrent software engineering (CSE) by information technology (IT) organizations in the United States and its effectiveness in improving software delivery time, quality, and cost. From a total population of 7,173 IT organizations, a one-third sample of 2,391 were surveyed. A net valid response of 142 organizations was received, which represents a valid return rate of 6.2 percent. The responses were then analyzed against software development time, quality, and cost metrics according to the software development methodologies used. Findings and Conclusions: This study shows the extent to which pure CSE and CSE in combination with the traditional system development life cycle (SDLC) are used in the United States. There are strong indications that CSE improves software development time and cost, but this could not be statistically proven from the data. There is no indication that CSE improves software quality.

Total Quality Management, (Revised Edition)

Pearson Education India

Total Quality Management Revised Edition: For Anna University, 3/e

Pearson Education India

Concurrent Engineering in the 21st Century

Foundations, Developments and Challenges

Springer Presenting the gradual evolution of the concept of Concurrent Engineering (CE), and the technical, social methods and tools that have been developed, including the many theoretical and practical challenges that still exist, this book serves to summarize the achievements and current challenges of CE and will give readers a comprehensive picture of CE as researched and practiced in different regions of the world. Featuring in-depth analysis of complex real-life applications and experiences, this book demonstrates that Concurrent Engineering is used widely in many industries and that the same basic engineering principles can also be applied to new, emerging fields like sustainable mobility. Designed to serve as a valuable reference to industry experts, managers, students, researchers, and software developers, this book is intended to serve as both an introduction to development and as an analysis of the novel approaches and techniques of CE, as well as being a compact reference for more experienced readers.

Failure Modes and Mechanisms in Electronic Packages

Springer Science & Business Media With the proliferation of packaging technology, failure and reliability have become serious concerns. This invaluable reference details processes that enable detection, analysis and prevention of failures. It provides a comprehensive account of the failures of device packages, discrete component connectors, PCB carriers and PCB assemblies.

Multi-Agent Systems for Concurrent

Intelligent Design and Manufacturing

CRC Press Agent Technology, or Agent-Based Approaches, is a new paradigm for developing software applications. It has been hailed as 'the next significant breakthrough in software development', and 'the new revolution in software' after object technology or object-oriented programming. In this context, an agent is a computer system which is capable of acting autonomously in its environment in order to meet its design objectives. So in the area of concurrent design and manufacturing, a manufacturing resource, namely a machine or an operator, may cooperate and negotiate with other agents for task assignment; and an existing engineering software can be integrated with a distributed integrated engineering design and manufacturing system. Hence in agent-based systems, there is no centralized system control structure, and no pre-defined agenda for the system execution, as exist in traditional systems. This book systematically describes the principles, key issues, and applications of agent technology in relation to concurrent engineering design and manufacturing. It introduces the methodology, standards, frameworks, tools, and languages of agent-based approaches and presents a general procedure for building agent-based concurrent engineering design and manufacturing systems. Both professional and university researchers and postgraduates should find this an invaluable presentation of the corresponding theories and methods, with some practical examples for developing multi-agent systems in the domain.

Agile Versus Aggressive Traditional Project Management

How Corporate Culture Drives the Project Management Styles of Two Different High-tech Industries

Government research and development are leveraging varied methodologies to satisfy market demands. The agile-based project management used in the first case is compared with aggressive, concurrent engineering combined with traditional project management in the second case. The corporate cultures that influence each industry's choice of methodology will be discussed.

Building Future Security

Strategies for Restructuring the Defense Technology and Industrial Base

Office of Technology Assessment

Technology of Lunar Soft Lander

Springer Nature This book provides systematic descriptions of design methods, typical techniques, and validation methods for lunar soft landers, covering their environmental design, system design, sub-system design, assembly, testing and ground test validation based on the Chang'e-3 mission. Offering readers a comprehensive, systematic and in-depth introduction to the technologies used in China's lunar soft landers, it presents detailed information on the design process for Chang'e-3, including methods and techniques that will be invaluable in future extraterrestrial soft lander design. As such, the book offers a unique reference guide for all researchers and professionals working on deep-space missions around the globe.

Concurrent Engineering

Fundamentals: Integrated product development

Prentice Hall A thorough, original guide to using Concurrent Engineering principles to develop products that meet customer needs -- and to do so as quickly and efficiently as possible. This book shows how CE encompasses manufacturing competitiveness, life-cycle management, process reengineering, cooperative workgroups, systems engineering, information modeling, and product, process and organization integration. This book also identifies, for the first time, 25 fundamental CE metrics and measures. These are categorized into four groups: simulations and analysis, product feasibility and quality assessment, design for X-ability assessment, and process quality assessment. The book describes the new process of Concurrent Function Deployment, which allows workgroups to work concurrently on conflicting values and compare notes and common checkpoints. Extensive exercises and illustrations are included throughout. Managers involved in any type of product development.

Integration of CAD/CAPP/CAM

Walter de Gruyter GmbH & Co KG The book introduces the fundamentals and development of Computer aided design, Computer aided process planning, and Computer aided manufacturing. The integration of CAD/CAPP/CAM, product data management and Concurrent engineering and collaborative design etc. are also illustrated in detail, which make this book be an essential reference for graduate students, scientists and practitioner in the research fields of computer sciences and engineering.

The Design Productivity Debate

Springer Science & Business Media 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.

Environmental Planning and Management

World Scientific This book focuses on environmental planning and management. Environmental problems are not purely scientific; some of the major problems deal with poor management and the inability to involve people in environmental decision making process. The approach taken in this book is to review environmental problems as they are affected by poor planning and management. Understanding of management issues involved will help to get top management to buy into environmental management. The tendency is for top management to view environmental management efforts as expensive and wasteful to an organization. However, when top management is exposed to the high cost of doing nothing and the lack of competitiveness as a result of poor environmental quality, it is more likely to buy into the idea of environmental quality and work towards achieving sustainable goals.

Systems Engineering and Analysis of Electro-Optical and Infrared Systems

CRC Press Electro-optical and infrared systems are fundamental in the military, medical, commercial, industrial, and private sectors. Systems Engineering and Analysis of Electro-Optical and Infrared Systems integrates solid fundamental systems engineering principles, methods, and techniques with the technical focus of contemporary electro-optical and infrared optics, imaging, and detection methodologies and systems. The book provides a running case study throughout that illustrates concepts and applies topics learned. It explores the benefits of a solid systems engineering-oriented approach focused on electro-optical and infrared systems. This book covers fundamental systems engineering principles as applied to optical systems, demonstrating how modern-day systems engineering methods, tools, and techniques can help you to optimally develop, support, and dispose of complex, optical systems. It introduces contemporary systems development paradigms such as model-based systems engineering, agile development, enterprise architecture methods, systems of systems, family of systems, rapid prototyping, and more. It focuses on the connection between the high-level systems engineering methodologies and detailed optical analytical methods to analyze, and understand optical systems performance capabilities. Organized into three distinct sections, the book covers modern, fundamental, and general systems engineering principles, methods, and techniques needed throughout an optical system's development lifecycle (SDLC); optical systems building blocks that provide necessary optical systems analysis methods, techniques, and technical fundamentals; and an integrated case study that unites these two areas. It provides enough theory, analytical content, and technical depth that you will be able to analyze optical systems from both a systems and technical perspective.