

Design Reuse in Product Development Modeling, Analysis and Optimization



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Design Reuse In Product Development Modeling Analysis And Optimization:

Design Reuse in Product Development Modeling, Analysis and Optimization S. K. Ong, 2008 Efficient management of product information is vital for manufacturing enterprises in this information age Considering the proliferation of product information tight production schedules and intense market competition human intelligence alone cannot meet the requirements of efficient product development Technologies and tools that support information management are urgently needed This volume presents the design reuse methodology to support product development Significant efforts have been made to create an intelligent and optimal design environment by incorporating the contemporary technologies in product family design artificial intelligence neural networks information theories etc This volume covers both theoretical topics and implementation strategies with detailed case studies to help readers gain an insight in areas such as product information modeling information analysis engineering optimization production cost estimation and product performance evaluation

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Moving Integrated Product Development to Service Clouds in the Global Economy J. Stjepandić, 2014-09-23 The theory of concurrent engineering is based on the concept that the different phases of a product lifecycle should be conducted concurrently and initiated as early as possible within the product creation process Concurrent engineering is important in many industries including automotive aerospace shipbuilding consumer goods and environmental engineering as well as in the development of new services and service support This book presents the proceedings of the 21st ISPE Inc International Conference on Concurrent Engineering held at Beijing Jiaotong University China in September 2014 It is the first volume of a new book series Advances in Transdisciplinary Engineering The title of the CE2014 conference is Moving Integrated Product Development to Service Clouds in the Global Economy which reflects the variety of processes and methods which influence modern product creation After an initial first section presenting the keynote papers the remainder of the book is divided into 11 further sections with peer reviewed papers product lifecycle management PLM knowledge based engineering KBE cloud approaches 3 D printing applications design methods educational

methods and achievements simulation of complex systems systems engineering services as innovation and science sustainability and recent research on open innovation in concurrent engineering The book will be of interest to CE researchers practitioners from industry and public bodies and educators alike

Product Lifecycle Management (PLM)
Uthayan Elangovan,2020-06-24 As featured on CNN Forbes and Inc BookAuthority identifies and rates the best books in the world based on recommendations by the world s most successful business leaders and experts Winning the spot of 19 out of 26 on the 2020 Bookauthority Best New Industrial Management Books of All Time Winning the spot of 3 out of 8 on the 2021 Bookauthority Best New Industrial Management Books to Read in 2021 Winning the spot of 5 out of 11 on the 2021 Bookauthority Best New Product Design Books to Read in 2021 2020 Taylor Francis Award Winner for Outstanding Professional Book Product Lifecycle Management PLM A Digital Journey Using Industrial Internet of Things IIoT provides a summary of the essential topics of Product Lifecycle Management PLM and the Industrial Internet of Things IIoT in the era of Industry 4 0 The book discusses emerging technologies their contribution towards enhancing product design development and manufacturing It also presents the integration of PLM Enterprise Resource Planning ERP and Manufacturing Execution System MES along with IIoT as well the integration of mechanical electronic components embedded systems firmware and software focusing on smart design development and manufacturing in the digital transformation journey The book provides a high level overview of how the smart product development through smart manufacturing materializes within the smart ecosystem Manufacturing professionals designers mechanical electrical electronics instrumentation and industrial engineers information and communication technology consultants and those working in production planning process control and operations will find this book invaluable

Multi-Disciplinary Engineering for Cyber-Physical Production Systems Stefan Biffel,Arndt Lüder,Detlef Gerhard,2017-05-06 This book discusses challenges and solutions for the required information processing and management within the context of multi disciplinary engineering of production systems The authors consider methods architectures and technologies applicable in use cases according to the viewpoints of product engineering and production system engineering and regarding the triangle of 1 product to be produced by a 2 production process executed on 3 a production system resource With this book industrial production systems engineering researchers will get a better understanding of the challenges and requirements of multi disciplinary engineering that will guide them in future research and development activities Engineers and managers from engineering domains will be able to get a better understanding of the benefits and limitations of applicable methods architectures and technologies for selected use cases IT researchers will be enabled to identify research issues related to the development of new methods architectures and technologies for multi disciplinary engineering pushing forward the current state of the art

Concurrent Engineering in the 21st Century Josip Stjepandić,Nel Wognum,Wim J.C. Verhagen,2015-01-30 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

Design Reuse - Engineering Design Conference '98 Sangarappillai Sivaloganathan,T. M. M. Shahin,1998 Collected papers from the Engineering Design Conference 98 held at Brunel University UK 23 25 June 1998 T p verso Includes bibliographical references and index

Proceedings of the ... ASME Design Engineering Technical Conferences ,2007 *Proceedings of the ASME International Design Engineering Technical Conferences and Computers and Information in Engineering Conferences--2005* ,2005 **Manufacturing Engineering and Materials Handling--2005** ,2005 **Engineering Data Management** Peggy Bocks,1994 **Mechatronics and Applied Mechanics II** Ching Kuo Wang,Jing Guo,2013-02-13 Selected peer reviewed papers from the 2nd International Conference on Mechatronics and Applied Mechanics ICMAM 2012 December 6 7 2012 Honkong December 8 9 2012 Taipei *Handbook of Solid Modeling* Donald E. LaCourse,1995 A complete reference and working guide to this vitally important methodology presenting valuable advice and insight from more than 30 of the top international design experts Readers will find detailed information on the latest solids modeling concepts and techniques hardware and software data exchange application and trends in the field *Dissertation Abstracts International* ,2008

INFORMS Annual Meeting Institute for Operations Research and the Management Sciences. National Meeting,2005 **OR/MS Today** ,2000 *Advances in Manufacturing Technology* Zheng Yi Jiang,Yu Gui Li,Xiao Ping Zhang,Jian Mei Wang,Wen Quan Sun,2012-11-12 Selected papers from the 2nd International Conference on Advanced Design and Manufacturing Engineering ADME 2012 August 16 18 2012 Taiyuan China [International Aerospace Abstracts](#) ,1999

[Proceedings](#) American Society for Engineering Education. Conference,1994 [Environmentally Conscious Manufacturing](#) ,2004

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