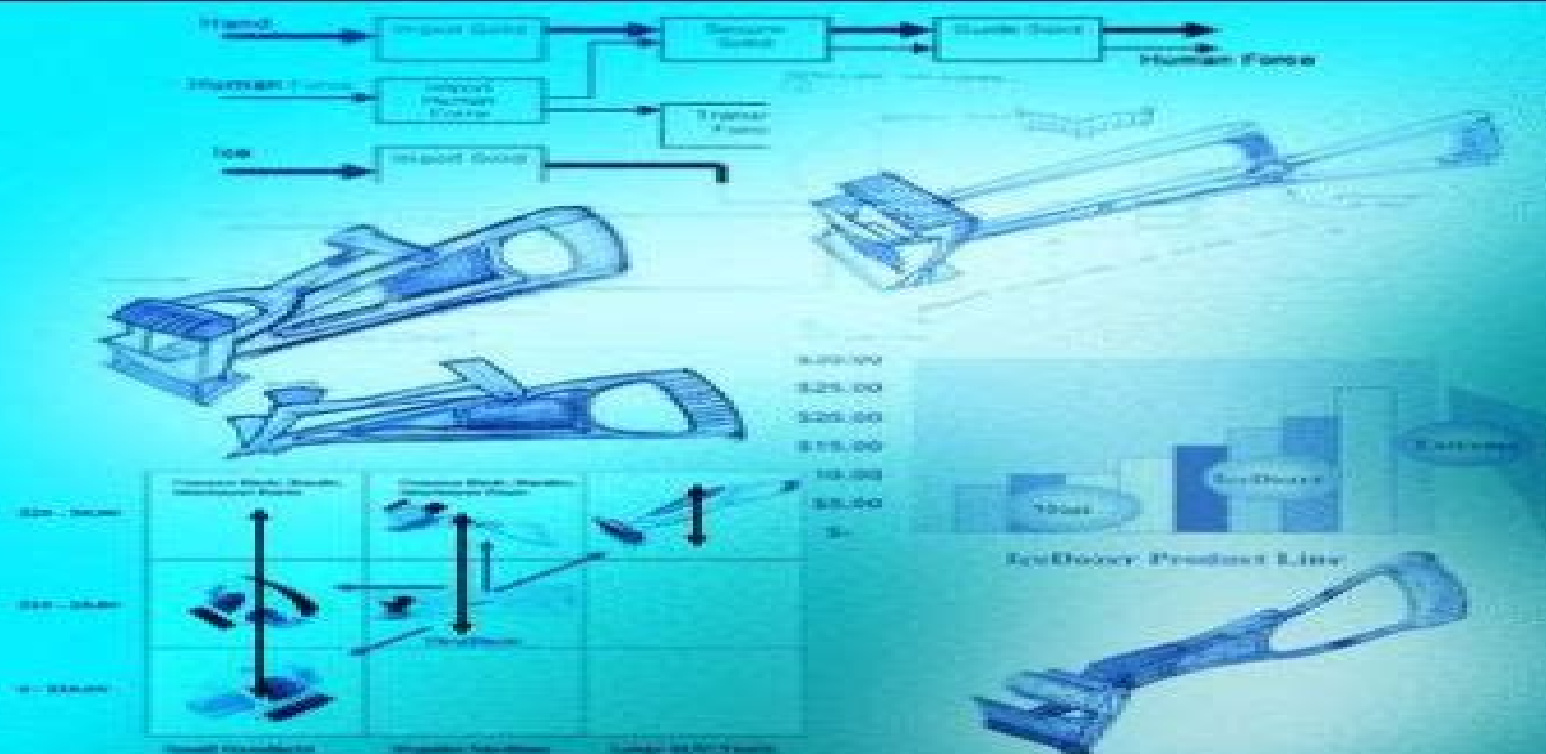


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Timothy W. Simpson
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PRODUCT PLATFORM AND PRODUCT FAMILY DESIGN

Methods and Applications



Product Platform And Product Family Design Methods And Applications

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Product Platform And Product Family Design Methods And Applications:

Product Platform and Product Family Design Timothy W. Simpson, Zahed Siddique, Roger Jianxin Jiao, 2006-03-20

Designing products and product families so they may be customized for the global marketplace and achieving these goals in abbreviated time period while maintaining production efficiencies are the keys to successful manufacturing operations. The research on these areas has matured rapidly over the last decade. Today's highly competitive and volatile marketplace is reshaping the way many companies do business as rapid innovation and mass customization offer a new form of competitive advantage. In response, companies like Sony, Black and Decker, and Kodak have successfully implemented strategies to design and develop an entire family of products to satisfy a wide variety of customer requirements. *Product Platform and Product Family Design Methods and Applications* discusses how product platform and product family design can be used successfully to increase variety within a product line, shorten manufacturing lead times, reduce overall costs within a product line. The material available here will serve as both a reference and a hands-on guide for practitioners involved in the design, planning, and production of products. Included are real-life case studies that explain the benefits of platform-based product development.

Advances in Product Family and Product Platform Design Timothy W. Simpson, Jianxin (Roger) Jiao, Zahed Siddique, Katja Hölttä-Otto, 2013-09-13 *Advances in Product Family and Product Platform Design Methods Applications* highlights recent advances that have been made to support product family and product platform design along with successful applications in industry. This book provides not only motivation for product family and product platform design, i.e., address questions about why and when should we platform, but also methods and tools to support the design and development of families of products based on shared platforms, i.e., address the how and what questions about platforming. It begins with a general overview of product family design to introduce the general reader to the topic and then progress to more advanced topics and design theory to help designers, engineers, and project managers plan, architect, and implement platform-based product development strategies for their company. Finally, successful industry applications provide readers and practitioners with case studies and talking points to become platform advocates and leaders within their organization.

Multi-objective Evolutionary Optimisation for Product Design and Manufacturing Lihui Wang, Amos H. C. Ng, Kalyanmoy Deb, 2011-09-06 With the increasing complexity and dynamism in today's product design and manufacturing, more optimal, robust, and practical approaches and systems are needed to support product design and manufacturing activities. *Multi-objective Evolutionary Optimisation for Product Design and Manufacturing* presents a focused collection of quality chapters on state-of-the-art research efforts in multi-objective evolutionary optimisation, as well as their practical applications to integrated product design and manufacturing. *Multi-objective Evolutionary Optimisation for Product Design and Manufacturing* consists of two major sections. The first presents a broad-based review of the key areas of research in multi-objective evolutionary optimisation. The second gives in-depth treatments of selected methodologies and systems in

intelligent design and integrated manufacturing Recent developments and innovations in multi objective evolutionary optimisation make Multi objective Evolutionary Optimisation for Product Design and Manufacturing a useful text for a broad readership from academic researchers to practicing engineers

Cooperative Decision-Making in Modular Product Family Design Marc Windheim, 2019-11-21 The development of modular product families holds enormous economic potential for companies as there are always great opportunities but also risks associated with all life phases of a product However these fundamental and far reaching effects inevitably lead to conflicting objectives when defining modular product structures which makes decision making in product development particularly complex Considering relevant theories from decision theory and product family design this book presents an innovative method to support decision makers in the development of modular product families The central element of the method is a novel Modularity Decision Dashboard MDD which interactively visualizes all decision relevant data The findings presented here confirm that applying the method to real world decision making problems leads to a more balanced ratio between internal and external variety and thus significantly contributes to the efficient economic benefit of modularization

Transdisciplinary Perspectives on Complex Systems Franz-Josef Kahlen, Shannon Flumerfelt, Anabela Alves, 2016-08-16 This book presents an internationally comprehensive perspective into the field of complex systems It explores the challenges of and approaches to complexity from a broad range of disciplines including big data health care medicine mathematics mechanical and systems engineering air traffic control and finance The book s interdisciplinary character allows readers to identify transferable and mutually exclusive lessons learned among these disciplines and beyond As such it is well suited to the transfer of applications and methodologies between ostensibly incompatible disciplines This book provides fresh perspectives on comparable issues of complexity from the top minds on systems thinking

Decision-Based Design Wei Chen, Christopher Hoyle, Henk Jan Wassenaar, 2012-08-22 Building upon the fundamental principles of decision theory Decision Based Design Integrating Consumer Preferences into Engineering Design presents an analytical approach to enterprise driven Decision Based Design DBD as a rigorous framework for decision making in engineering design Once the related fundamentals of decision theory economic analysis and econometrics modelling are established the remaining chapters describe the entire process the associated analytical techniques and the design case studies for integrating consumer preference modeling into the enterprise driven DBD framework Methods for identifying key attributes optimal design of human appraisal experiments data collection data analysis and demand model estimation are presented and illustrated using engineering design case studies The scope of the chapters also provides A rigorous framework of integrating the interests from both producer and consumers in engineering design Analytical techniques of consumer choice modelling to forecast the impact of engineering decisions Methods for synthesizing business and engineering models in multidisciplinary design environments and Examples of effective application of Decision Based Design supported by case studies No matter whether you are an engineer facing decisions in consumer

related product design an instructor or student of engineering design or a researcher exploring the role of decision making and consumer choice modelling in design Decision Based Design Integrating Consumer Preferences into Engineering Design provides a reliable reference over a range of key topics

Future Trends in Production Engineering Günther Schuh,Reimund Neugebauer,Eckart Uhlmann,2012-08-15 To meet and adapt to the current and future trends and issues in technology and society the science committee of The German Academic Society for Production Engineering WGP continues to define future topics for production technology These themes represent not only the key focus for the scientific work of the WGP but also the central themes of the first annual conference in June 2011 whose paper is publically available in this volume Such themes including electric mobility medical technology lightweight construction and resource efficiency as well as mass production ability have all been identified as future large scale and long term drivers of change Future trends influence changes sustainably and fundamentally they permeate society technology economics and value systems and have an effect in virtually all areas of life The WGP has as part of its research established for itself the goal of not only observing these emerging changes but also of supervising and influencing their development in order to ensure steady progress secure sustainability and shape the future

Handbook Of Research In Mass Customization And Personalization (In 2 Volumes) - Volume 1: Strategies And Concepts; Volume 2: Applications And Cases Frank T Piller,Mitchell M Tseng,2009-12-30 A growing heterogeneity of demand the advent of long tail markets exploding product complexities and the rise of creative consumers are challenging companies in all industries to find new strategies to address these trends Mass customization MC has emerged in the last decade as the premier strategy for companies in all branches of industry to profit from heterogeneity of demand and a broad scope of other customer demands The research and practical experience collected in this book presents the latest thinking on how to make mass customization work More than 50 authors from academia and management debate on what is viable now what did not work in the past and what lurks just below the radar in mass customization personalization and related fields Edited by two leading authorities in the field of mass customization both volumes of the book discuss among many other themes the latest research and insights on customization strategies product design for mass customization virtual models co design toolkits customization value measurement open source architecture customization communities and MC supply chains Through a number of detailed case studies prominent examples of mass customization are explained and evaluated in larger context and perspective

Handbook of Research in Mass Customization and Personalization Frank T. Piller,2010 A growing heterogeneity of demand the advent of long tail markets exploding product complexities and the rise of creative consumers are challenging companies in all industries to find new strategies to address these trends Mass customization MC has emerged in the last decade as the premier strategy for companies in all branches of industry to profit from heterogeneity of demand and a broad scope of other customer demands The research and practical experience collected in this book presents the latest thinking on how to make mass customization work More than 50 authors

from academia and management debate on what is viable now what did not work in the past and what lurks just below the radar in mass customization personalization and related fields Edited by two leading authorities in the field of mass customization both volumes of the book discuss among many other themes the latest research and insights on customization strategies product design for mass customization virtual models co design toolkits customization value measurement open source architecture customization communities and MC supply chains Through a number of detailed case studies prominent examples of mass customization are explained and evaluated in larger context and perspective

Mass Customization
 Flavio S. Fogliatto, Giovanni J.C. da Silveira, 2010-11-09 Mass customization MC has been hailed as a successful operations strategy across manufacturing and service industries for the past three decades However the wider implications of using MC approaches in the broader industrial and economic environment are not yet clearly understood Mass Customization Engineering and Managing Global Operations presents emerging research on the role of MC and personalization in today's international operations context The chapters cover MC in the context of global industrial economics and operations Moreover the book discusses MC topics that are relevant to the manufacturing and service sectors such as product platforms learning curve modeling additive manufacturing and service customization Case studies in manufacturing e.g. apparel and transportation and services e.g. banking and virtual worlds are also included Mass Customization Engineering and Managing Global Operations is a valuable text for mass customization researchers and practitioners Researchers will find a selection of chapters prepared by internationally renowned authors comprising most of their recent research in MC Engineering professionals will be drawn by the vivid discussion of operational aspects and methods of MC as well as by the selection of cases illustrating their practical application

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 José Gaviria de la Puerta, Iván García Ferreira, Pablo García Bringas, Fanny Klett, Ajith Abraham, André C.P.L.F. de Carvalho, Álvaro Herrero, Bruno Baruque, Héctor Quintián, Emilio Corchado, 2014-06-07 This volume of Advances in Intelligent and Soft Computing contains accepted papers presented at SOCO 2014 CISIS 2014 and ICEUTE 2014 all conferences held in the beautiful and historic city of Bilbao Spain in June 2014 Soft computing represents a collection or set of computational techniques in machine learning computer science and some engineering disciplines which investigate simulate and analyze very complex issues and phenomena After a thorough peer review process the 9th SOCO 2014 International Program Committee selected 31 papers which are published in these conference proceedings In this relevant edition a special emphasis was put on the organization of special sessions One special session was organized related to relevant topics as Soft Computing Methods in Manufacturing and Management Systems The aim of the 7th CISIS 2014 conference is to offer a meeting opportunity for academic and industry related researchers belonging to the various vast communities of Computational Intelligence Information Security and Data Mining The need for intelligent flexible behaviour by large complex systems especially in mission critical domains is intended to be the catalyst and the aggregation stimulus for the

overall event After a through peer review process the CISIS 2014 International Program Committee selected 23 papers and the 5th ICEUTE 2014 International Program Committee selected 2 papers which are published in these conference proceedings as well **Intelligent Systems'2014** D. Filev, J. Jabłkowski, J. Kacprzyk, M. Krawczak, I. Popchev, L. Rutkowski, V. Sgurev, E. Sotirova, P. Szynkarczyk, S. Zadrozny, 2014-09-20 This two volume set of books constitutes the proceedings of the 2014 7th IEEE International Conference Intelligent Systems IS or IEEE IS 2014 for short held on September 24-26 2014 in Warsaw Poland Moreover it contains some selected papers from the collocated IWIFSGN 2014 Thirteenth International Workshop on Intuitionistic Fuzzy Sets and Generalized Nets The conference was organized by the Systems Research Institute Polish Academy of Sciences Department IV of Engineering Sciences Polish Academy of Sciences and Industrial Institute of Automation and Measurements PIAP The papers included in the two proceedings volumes have been subject to a thorough review process by three highly qualified peer reviewers Comments and suggestions from them have considerably helped improve the quality of the papers but also the division of the volumes into parts and assignment of the papers to the best suited parts **Encyclopedia of Data Warehousing and Mining, Second Edition** Wang, John, 2008-08-31 There are more than one billion documents on the Web with the count continually rising at a pace of over one million new documents per day As information increases the motivation and interest in data warehousing and mining research and practice remains high in organizational interest The Encyclopedia of Data Warehousing and Mining Second Edition offers thorough exposure to the issues of importance in the rapidly changing field of data warehousing and mining This essential reference source informs decision makers problem solvers and data mining specialists in business academia government and other settings with over 300 entries on theories methodologies functionalities and applications

Interdisciplinary Design: Proceedings of the 21st CIRP Design Conference , *Transdisciplinary Engineering: Crossing Boundaries* Milton Borsato, Nel Wognum, Margherita Peruzzini, Josip Stjepandic, Wim J.C. Verhagen, 2016-10-15 The Concurrent Engineering CE approach was developed in the 1980s based on the concept that different phases of a product life cycle should be conducted concurrently and initiated as early as possible within the Product Creation Process PCP CE concepts have matured and become the foundation of many new ideas methodologies initiatives approaches and tools This book contains the proceedings from the 23rd ISPE Inc International Conference on Transdisciplinary formerly Concurrent Engineering held in Curitiba Parana Brazil in October 2016 The conference entitled Transdisciplinary Engineering Crossing Boundaries provides an important forum for international scientific exchange on Concurrent Engineering and collaborative enterprises and attracts the participation of researchers industry experts and students as well as government representatives The 108 peer reviewed papers and keynote speech included here range from theoretical and conceptual to strongly pragmatic works which are organized into 17 sections including Concurrent Engineering and knowledge exchange engineering for sustainability multidisciplinary project management collaborative design and engineering optimization of

engineering operations and data analytics and multidisciplinary design optimization among others The book gives an overview of the latest research advancements and applications in the field and will be of interest to researchers design practitioners and educators

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

7th International Munich Chassis Symposium 2016 Prof. Dr. Peter E. Pfeffer, 2016-08-15 In chassis development the three aspects of safety vehicle dynamics and ride comfort are at the top of the list of challenges to be faced Addressing this triad of challenges becomes even more complex when the chassis is required to interact with assistance systems and other systems for fully automated driving What is more new demands are created by the introduction of modern electric and electronic architectures All these requirements must be met by the chassis together with its subsystems the steering brakes tires and wheels At the same time all physical relationships and interactions have to be taken into account

Adaptable Design Peihua Gu, Deyi Xue, Qingjin Peng, Jian Zhang, 2023-12-14 This book provides a comprehensive discussion of Adaptable Design AD It covers the conception method and application of AD to the real world product design AD s benefits are substantial as it upgrades reuses remanufactures and recycles products throughout the product lifecycle It rapidly adapts the existing design in development of new designs Key elements of AD include rationalized function structures adaptable product architectures adaptable interfaces and adaptability evaluations The main feature of AD is adaptability in design methods and product applications with general and specific adaptability AD has also modeling and evaluating adaptabilities

Towards Sustainable Customization: Bridging Smart Products and Manufacturing Systems Ann-Louise Andersen, Rasmus Andersen, Thomas Ditlev Brunoe, Maria Stoettrup Schioenning Larsen, Kjeld Nielsen, Alessia Napoleone, Stefan Kjeldgaard, 2021-10-31 This book features state of the art contributions from two well

established conferences Changeable Agile Reconfigurable and Virtual Production Conference CARV2020 and Mass Customization and Personalization Conference MCPC2020 Together they focus on the joint design development and management of products production systems and business for sustainable customization and personalization The book covers a large range of topics within this domain ranging from industrial success factors to original contributions within the field

Transdisciplinary Engineering: A Paradigm Shift Amy C. Trappey, Margherita Peruzzini, Nel Wognum, 2017-07-15
Concurrent Engineering is based on the concept that different phases of a product life cycle should be conducted concurrently and initiated as early as possible within the Product Creation Process PCP Its main goal is to increase the efficiency and effectiveness of the PCP and reduce errors in the later stages and to incorporate considerations for the full lifecycle through life operations and environmental issues of the product It has become the substantive basic methodology in many industries and the initial basic concepts have matured and become the foundation of many new ideas methodologies initiatives approaches and tools This book presents the proceedings of the 24th ISPE Inc International Conference on Transdisciplinary formerly Concurrent Engineering TE 2017 held in Singapore in July 2017 The 120 peer reviewed papers in the book are divided into 16 sections air transport and traffic operations and management risk aware supply chain intelligence product innovation and marketing management human factors in design human engineering design methods and tools decision supporting tools and methods concurrent engineering knowledge based engineering collaborative engineering engineering for sustainability service design digital manufacturing design automation artificial intelligence and data analytics smart systems and the Internet of Things The book provides a comprehensive overview of recent advances in transdisciplinary concurrent engineering research and applications and will be of interest to researchers design practitioners and educators working in the field

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