

# Controlling Design Variants



Modular  
Product  
Platforms



Anna Ericsson  
Gunnar Erixon, Ph.D.

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# Controlling Design Variants Modular Product Platforms Hardcover

**Asko Riitahuhta, Antti Pulkkinen**



## **Controlling Design Variants Modular Product Platforms Hardcover:**

*Controlling Design Variants* Anna Ericsson, Gunnar Erixon, 1999 Introduces the concept of modular design within the product platform approach intended to increase company efficiency while reducing costs and time to market Companies can achieve significant advantages by separating parts that should vary to satisfy customer needs from parts that should be kept as common units The terminology and a five step method for creating modular product platforms are developed Back cover

*Technical Digest*, 1999 *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 *Modular Product Platform Design* Katja Hölttä-Otto, 2005 **Methodical Development of Modular**

**Product Families** Dieter Krause, Nicolas Gebhardt, 2023-02-01 This book focuses on the development of multi variant products using modular product structures and thus addresses the reduction of complexity from a product development perspective These modular product structures allow for a greater variety of demand with a smaller internal variety of components and processes As a supplement to the common product development methodology the necessary basics of modularity and variant diversity as well as the corresponding methods are presented comprehensively The book thus summarizes the current state of science as well as the research activities of the past ten years at the Institute of Product Development and Design Technology at the TU Hamburg Harburg The target groups This book is aimed at product developers and decision makers in practice Science is offered a helpful reference book and interested engineering students can immerse themselves in the development of modular product families with the necessary basics This book is a translation of the original German 1st edition *Methodische Entwicklung modularer Produktfamilien* by Dieter Krause Nicolas Gebhardt published by Springer Fachmedien Wiesbaden GmbH part of Springer Nature in 2018 The translation was done with the help of artificial intelligence machine translation by the service DeepL.com A subsequent human revision was done primarily in terms of content so that the book will read stylistically differently from a conventional translation Springer Nature works continuously to further the development of tools for the production of books and on the related technologies to support the authors [Design for Changeability: Incorporating Change Propagation Analysis in Modular Product Platform Design](#)

Günther Schuh, Michael Riesener, Stefan Armin Ernst Breunig, 2017 **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 *Design for Configuration* Asko Riitahuhta, Antti Pulkkinen, 2012-12-06 *Product Structuring for Design Reuse Product Platform systems Configuration and Modularisation* is gaining growing attention in global operating companies as means to enhance productivity in manufacturing of customised product variants th In that situation it was a great opportunity to get the 5 Product Structuring Workshop to Tampere The special theme of the workshop was chosen Design for Configuration We see that Knowledge Systematisation is an important research area for Product Structuring We made a decision to apply Knowledge Systematisation for the workshop itself we used the small group working method Double Team Method in workshop discussions for creating adding values based on presented papers and after workshop we have made a synthesis for crystallizing results from papers and group works On the behalf of organisers I thank for the enthusiastic participation on the all of workshop and Finnish Academy and Tampere Centre of Expertise for stages funding the workshop and publication of this book I am sure that all participants would like to join to my many thanks for the workshop secretary Ms Jenni Kauppila for her efficient organisation work After workshop she has made excellent work as our editorial secretary [Technology Assessment for Modular Product Platforms with Fuzzy Numbers](#) Eric Rebentisch, Günther Schuh, Stefan Rudolf, Stefan Armin Ernst Breunig, Christoph Brakemeier, 2016 **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

**Modular product architecture - Fostering or hindering innovation?** Peter Klemmer,2007-11-19 Seminar paper from the year 2007 in the subject Business economics Supply Production Logistics grade 2 0 LMU Munich Innotec Institut f r Innovationsforschung Technologiemanagement und Entrepreneurship course Innovationsmanagement Theorie Empirie Case Studies language English abstract Industrialization processes in the last decades have resulted in the emergence of immense new industries which for a great part can be ascribed to comprehensive activities of technological innovation Driven by dynamic market contexts such as globalization or technological advances leading to growing complexities and evolving consumer demands firms are however increasingly affronted with the challenge to offer a greater variety of products of improved performance in less time and under lower costs Momme et al 2000 p 128 Ulrich Eppinger 1995 p 5 Technological innovation as the means and ends of new product development therefore plays a significant role Modular product architecture with products that made up of a set of independent components connected only via defined interfaces Ulrich Eppinger 1995 p 132 is predominantly found in technologically intensive industries such as telecommunications electronics or the automobile sector Sanchez Mahoney 1996 p 67 Staudenmayer et al 2005 p 308 Under the light of the challenges affronting firms this paper examines the effects modular product architecture has on technological innovation This paper investigates the effects of modular product architecture with standardized open interfaces assuming many component producers and a central firm controlling the systemic fit of these From a resource and production point of view modularity in combination with a coherent process infrastructure enables firms to meet market demands described Sanchez 2004 p 59 In addition product strategic flexibility is significantly improved involving the possibilities of mass customization through flexible up Cusumano Gawer 2002 p 55 The paper further suggests that technological innovation with modularity applied leads to a steady evolution of products Galvin Morkel 2001 p 34 Langlois Robertson 1992 p 310 The resulting changes can show sustaining Christensen 1997 p xv character but equally may disrupt existing knowledge in the event of integrative innovation The X Box case powerfully demonstrates key aspects of product modularity and its effects on technological innovation

*Modular Product Development for Mass Customization* Ahm Shamsuzzoha,2010 [Variant Management of Modular Product Families in the Market Phase](#) Björn Avak,2006 **Modular Product Design** Gunnar Erixon,Roger B. Stake,2003 *On Axiomatic Design in Modular Product Development* Fredrik Hillström,Chalmers tekniska högskola. Institutionen för maskin- och fordonskonstruktion,1994 **Product Design for Modularity** Ali K. Kamrani,Sa'ed M. Salhieh,2014-01-15 **An Inductive Approach to Product Design Based on Modular Product Architecture** Balaji

Chandrasekaran,2001      **Multiobjective Optimization Method for Identifying Modular Product Platforms and Modules that Account for Changing Needs Over Time** Patrick K. Lewis,2010 Natural and predictable changes in consumer needs often require the development of new products Providing solutions that anticipate account for and allow for these changes over time is a significant challenge to manufacturers and design engineers Products that adapt to these changes through the addition of modules reduce production costs through product commonality and provide a set of products that cater to customization and adaptation In this thesis a multiobjective optimization design method using s Pareto frontiers sets of non dominated designs from disparate design models is developed and used to identify a set of optimal adaptive product designs that satisfy changing consumer needs The novel intent of the method is to design a product that adapts to changing consumer needs by moving from one location on the s Pareto frontier to another through the addition of a module and or reconfiguration The six step method is described as follows A Characterize the multiobjective design space B Identify the anticipated regions of interest within the search space based on predicted future needs C Identify the platform design variables that minimize the performance losses due to commonality across the anticipated regions of interest D Assemble the s Pareto frontier within each region of interest E Determine the values of all design variables for the optimal product design in each region of interest by multiobjective optimization F Identify the module design variables and identify the platform and module designs by constrained module design An example of the design of a simple unmanned air vehicle is used to demonstrate application of the method for a single Pareto frontier case The design of a manual irrigation pump is used to demonstrate application of the method for a s Pareto frontier case In addition these examples show the ability of the method to design a product that adapts to changing consumer needs by traversing the s Pareto frontier      **The Development of Modular Product Design System and Product Development Roadmap** Ngai-Chiu Sunny Chai,2011      **Models for Platform-based Product Family Design** Javier Patricio Gonzalez-Zugasti,2000

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