Controlling Design Variants Modular Product Platforms Hardcover

A Model-based Methodology for Product Family DesignThe Power of Product PlatformsLearning JavaScript Design PatternsSubversion 1.6 Official GuideModularization of ServicesComplex Engineered SystemsProduct Lifecycle Management: Towards Knowledge-Rich EnterprisesAdvances in Production Management Systems. Sustainable Production and Service Supply ChainsWind TurbinesBooks in PrintOut Of ControlMastering Visual Studio .NETTCP/IP Network AdministrationProduct Lifecycle Management17th International Conference on Design Theory and MethodologyCost-Efficient DesignRobot Oriented DesignProceedings of the Conference on Teacher Education for Sustainable Development in EthiopiaResearch Into DesignTechnical DigestProgramming Embedded SystemsThe IGBT DeviceProduct Platform and Product Family DesignEnabling Manufacturing Competitiveness and Economic SustainabilityCooperative Decision-Making in Modular Product Family Design802.11ac: A Survival GuideMaterial Requirements of ManufacturingProduct Lifecycle Management and the Industry of the FutureAdvances in Production Management Systems: Innovative and Knowledge-Based Production Management in a Global-Local WorldProduct Design and Life Cycle AssessmentCE 123Variant Configuration with SAPDesign Structure Matrix Methods and ApplicationsControlling Design VariantsBooks in Print SupplementControl System DesignAmerican Book Publishing RecordInternational Journal of Manufacturing Technology and ManagementProceedings of the ASME Design Engineering Technical ConferencesGrowing Modular

A Model-based Methodology for Product Family Design

The Power of Product Platforms

The next frontier for wireless LANs is 802.11ac, a standard that increases throughput beyond one gigabit per second. This concise guide provides in-depth information to help you plan for 802.11ac, with technical details on design, network operations, deployment, and monitoring. Author Matthew Gast—an industry expert who led the development of 802.11-2012 and security task groups at the Wi-Fi Alliance—explains how 802.11ac will not only increase the speed of your network, but its capacity as well. Whether you need to serve more clients with your current level of throughput, or serve your existing client load with higher throughput, 802.11ac is the solution. This book gets you started. Understand how the 802.11ac protocol works to improve the speed and capacity of a wireless LAN Explore how beamforming increases speed capacity by improving link margin, and lays the foundation for multi-user MIMO Learn how multi-user MIMO increases capacity by enabling an AP to send data to multiple clients simultaneously Plan when and how to upgrade your network to 802.11ac by evaluating client devices, applications, and network connections

Learning JavaScript Design Patterns

Most companies know that long-term success does not hinge on any single product but on a continuous stream of value-rich products that target growth markets. Yet many firms inexplicably develop one product at a time, and by doing so fail to embrace commonality, compatibility, standardization, or modularization among different products and product lines. At last, in this timely book, Marc H. Meyer and Alvin P. Lehnerd provide a formula for turning products into profits, enabling companies to design technologically superior products more easily. Their solution is, in two words, PRODUCT PLATFORMS. They argue that firms must focus their energies on developing families of products simultaneously which share common components and technology. The authors describe how the champions of product development separate themselves from less sophisticated companies by building entire families of strong products from a single "platform" of common product structures, technologies, and automated product processes. These successful companies recognize and respond to new market opportunities by integrating core skills and technology in the form of new products. In this easy-to-read and practical book, the authors masterfully elucidate this dynamic and forward-thinking strategy which enables companies to develop innovative products faster, more cheaply, and with less effort. Drawing on in-depth case studies and personal experience with successful companies such as Hewlett-Packard, EMC, Black & Decker, and Boeing, Meyer and Lehnerd show managers how to create extraordinary products and thereby set the standard for combined value and cost leadership in their products. They argue that when a company's products are robust—highly functional, elegant in their design, reasonably priced, and a pleasure to use—the corporation will be equally robust. More importantly, The Power of Product Platforms reveals the methodology and organizational approach for designing, developing, and revitalizing strong products that enable the firm to make the transition from one generation of technology to the next. The authors also explain how well-designed product platforms can generate streams of derivative products through a continuous systematic process of renewal. Meyer and Lehnerd apply this methodology to a broad range of industries; manufacturing in both consumer and industrial markets, software firms, and Internet information services providers. This clear prescription for transforming the bottom line by aggressively managing product development and innovation will become required reading for large and small corporations alike, including entrepreneurs, all of whom depend on the excellence of their new products for growth.

Subversion 1.6 Official Guide

Modularization of Services

Authored by two of the leading authorities in the field, this guide offers readers the knowledge and skills needed to achieve proficiency with embedded software.

Complex Engineered Systems

This book discusses how product platform and product family design can be used successfully to increase variety within a product line, shorten manufacturing lead times, and reduce overall costs within a product line. The material serves as a reference and a hands-on guide for practitioners involved in the design, planning and production of products. Real-life case studies that explain the benefits of platform based product development are included.

Product Lifecycle Management: Towards Knowledge-Rich Enterprises

Advances in Production Management Systems. Sustainable Production and Service Supply Chains

This book sheds light on the large-scale engineering systems that shape and guide our everyday lives. It does this by bringing together the latest research and practice defining the emerging field of Complex Engineered Systems. Understanding, designing, building and controlling such complex systems is going to be a central challenge for engineers in the coming decades. This book is a step toward addressing that challenge.

Wind Turbines

Introduction to state-space methods covers feedback control; state-space representation of dynamic systems and dynamics of linear systems; frequency-domain analysis; controllability and observability; shaping the dynamic response; more. 1986 edition.

Books in Print

Out Of Control

This book constitutes the refereed post-conference proceedings of the 14th IFIP WG 5.1 International Conference on Product Lifecycle Management, PLM 2017, held in Seville, Spain, in July 2017. The 64 revised full papers presented were carefully reviewed and selected from 78 submissions. The papers are organized in the following topical sections: PLM maturity,

implementation and adoption; PLM for digital factories; PLM and process simulation; PLM, CAX and knowledge management; PLM and education; BIM; cyber-physical systems; modular design and products; new product development; ontologies, knowledge and data models; and Product, Service, Systems (PSS).

Mastering Visual Studio .NET

TCP/IP Network Administration

Out of Control chronicles the dawn of a new era in which the machines and systems that drive our economy are so complex and autonomous as to be indistinguishable from living things.

Product Lifecycle Management

The two volumes IFIP AICT 414 and 415 constitute the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2013, held in University Park, PA, USA, in September 2013. The 133 revised full papers were carefully reviewed and selected for inclusion in the two volumes. They are organized in 4 parts: sustainable production, sustainable supply chains, sustainable services, and ICT and emerging technologies.

17th International Conference on Design Theory and Methodology

"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.

Cost-Efficient Design

This is the official guide and reference manual for Subversion 1.6 - the popular open source revision control technology.

Robot Oriented Design

Proceedings of the Conference on Teacher Education for Sustainable Development in Ethiopia

Research Into Design

The three volumes IFIP AICT 438, 439, and 440 constitute the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2014, held in Ajaccio, France, in September 2014. The 233 revised full papers were carefully reviewed and selected from 271 submissions. They are organized in 6 parts: knowledge discovery and sharing; knowledge-based planning and scheduling; knowledge-based sustainability; knowledge-based services; knowledge-based performance improvement, and case studies.

Technical Digest

Programming Embedded Systems

With Learning JavaScript Design Patterns, you'll learn how to write beautiful, structured, and maintainable JavaScript by applying classical and modern design patterns to the language. If you want to keep your code efficient, more manageable, and up-to-date with the latest best practices, this book is for you. Explore many popular design patterns, including Modules, Observers, Facades, and Mediators. Learn how modern architectural patterns—such as MVC, MVP, and MVVM—are useful from the perspective of a modern web application developer. This book also walks experienced JavaScript developers through modern module formats, how to namespace code effectively, and other essential topics. Learn the structure of design patterns and how they are written Understand different pattern categories, including creational, structural, and behavioral Walk through more than 20 classical and modern design patterns in JavaScript Use several options for writing modular code—including the Module pattern, Asyncronous Module Definition (AMD), and CommonJS Discover design patterns implemented in the jQuery library Learn popular design patterns for writing maintainable jQuery plug-ins "This book should be in every JavaScript developer's hands. It's the go-to book on JavaScript patterns that will be read and referenced many times in the future."—Andrée Hansson, Lead Front-End Developer, presis!

The IGBT Device

The changing manufacturing environment requires more responsive and adaptable manufacturing systems. The theme of the 5th International Conference on Changeable, Agile, Reconfigurable and Virtual production (CARV2013) is "Enabling

Manufacturing Competitiveness and Economic Sustainability. Leading edge research and best implementation practices and experiences, which address these important issues and challenges, are presented. The proceedings include advances in manufacturing systems design, planning, evaluation, control and evolving paradigms such as mass customization, personalization, changeability, re-configurability and flexibility. New and important concepts such as the dynamic product families and platforms, co-evolution of products and systems, and methods for enhancing manufacturing systems' economic sustainability and prolonging their life to produce more than one product generation are treated. Enablers of change in manufacturing systems, production volume and capability, scalability and managing the volatility of markets, competition among global enterprises and the increasing complexity of products, manufacturing systems and management strategies are discussed. Industry challenges and future directions for research and development needed to help both practitioners and academicians are presented. About the Editor Prof. Dr.-Ing. Michael F. Zaeh, born in 1963, has been and is Professor for and Manufacturing Technology since 2002 and, together with Prof. Dr.-Ing. Gunther Reinhart, Head of the Institute for Machine Tools and Industrial Management (iwb) at the Technische Universitaet Muenchen (TUM). After studying general mechanical engineering, he was doctoral candidate under Prof. Dr.-Ing. Joachim Milberg at TUM from 1990 until 1993 and received his doctorate in 1993. From 1994 to 1995, he was department leader under Prof. Dr.-Ing. Gunther Reinhart. From 1996 to 2002, he worked for a machine tool manufacturer in several positions, most recently as a member of the extended management. Prof. Dr.-Ing. Michael F. Zaeh is an associated member of the CIRP and member of acatech, WGP and WLP. His current researches include among others Joining and Cutting Technologies like Laser Cutting and Welding as well as Friction Stir Welding, Structural Behaviour and Energy Efficiency of Machine Tools and Manufacturing Processes like Additive Manufacturing.

Product Platform and Product Family Design

A starter to the concepts of modularization and mass customization. Condensed and application-oriented approach for a broad audience in engineering, production, sales and marketing. Provides an extensive configurator evaluation checklist for future users and a supplement of business cases.

Enabling Manufacturing Competitiveness and Economic Sustainability

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.

Cooperative Decision-Making in Modular Product Family Design

A detailed handbook for experienced developers explains how to get the most out of Microsoft's Visual Studio .NET, offering helpful guidelines on how to use its integrated develpment environment, start-up templates, and other features and tools to create a variety of applications, including Web services. Original. (Advanced)

802.11ac: A Survival Guide

Material Requirements of Manufacturing

This complete guide to setting up and running a TCP/IP network is essential for network administrators, and invaluable for users of home systems that access the Internet. The book starts with the fundamentals -- what protocols do and how they work, how addresses and routing are used to move data through the network, how to set up your network connection -- and then covers, in detail, everything you need to know to exchange information via the Internet.Included are discussions on advanced routing protocols (RIPv2, OSPF, and BGP) and the gated software package that implements them, a tutorial on configuring important network services -- including DNS, Apache, sendmail, Samba, PPP, and DHCP -- as well as expanded chapters on troubleshooting and security. TCP/IP Network Administration is also a command and syntax reference for important packages such as gated, pppd, named, dhcpd, and sendmail.With coverage that includes Linux, Solaris, BSD, and System V TCP/IP implementations, the third edition contains: Overview of TCP/IP Delivering the data Network services Getting startedM Basic configuration Configuring the interface Configuring routing Configuring DNS Configuring network servers Configuring sendmail Configuring Apache Network security Troubleshooting Appendices include dip, ppd, and chat reference, a gated reference, a dhcpd reference, and a sendmail reference This new edition includes ways of configuring Samba to provide file and print sharing on networks that integrate Unix and Windows, and a new chapter is dedicated to the important task of configuring the Apache web server. Coverage of network security now includes details on OpenSSH, stunnel, gpg, iptables, and the access control mechanism in xinetd. Plus, the book offers updated information about DNS, including details on BIND 8 and BIND 9, the role of classless IP addressing and network prefixes, and the changing role of registrars.Without a doubt, TCP/IP Network Administration, 3rd Edition is a must-have for all network administrators and

anyone who deals with a network that transmits data over the Internet.

Product Lifecycle Management and the Industry of the Future

Renewable energies constitute excellent solutions to both the increase of energy consumption and environment problems. Among these energies, wind energy is very interesting. Wind energy is the subject of advanced research. In the development of wind turbine, the design of its different structures is very important. It will ensure: the robustness of the system, the energy efficiency, the optimal cost and the high reliability. The use of advanced control technology and new technology products allows bringing the wind energy conversion system in its optimal operating mode. Different strategies of control can be applied on generators, systems relating to blades, etc. in order to extract maximal power from the wind. The goal of this book is to present recent works on design, control and applications in wind energy conversion systems.

Advances in Production Management Systems: Innovative and Knowledge-Based Production Management in a Global-Local World

The design and provision of telemedical services which are both, efficient and customer-centric, constitute a huge challenge in the promising field of telemedicine. This dissertation presents an adequate solution. It outlines a systematic approach for the modularization of telemedical services: the SMART method. Following a design science research approach, this method was iteratively designed and evaluated. Thereby, the three overarching research questions could be answered successfully. They address the requirements elicitation, the design, and the evaluation of the method. The application of the SMART method confirms the intended effects, e.g., higher efficiencies due to reuse of service modules, and represents the key practical contribution of this thesis. Thus, service providers from the field of telemedicine are enabled to design and provide their services in an efficient and user-centric fashion. This dissertation contributes to all person-oriented fields that face digital transformations.

Product Design and Life Cycle Assessment

Includes authors, titles, subjects.

CE 123

An introduction to a powerful and flexible network modeling tool for developing and understanding complex systems, with many examples from a range of industries. Design structure matrix (DSM) is a straightforward and flexible modeling

technique that can be used for designing, developing, and managing complex systems. DSM offers network modeling tools that represent the elements of a system and their interactions, thereby highlighting the system's architecture (or designed structure). Its advantages include compact format, visual nature, intuitive representation, powerful analytical capacity, and flexibility. Used primarily so far in the area of engineering management, DSM is increasingly being applied to complex issues in health care management, financial systems, public policy, natural sciences, and social systems. This book offers a clear and concise explanation of DSM methods for practitioners and researchers.

Variant Configuration with SAP

Design Structure Matrix Methods and Applications

Controlling Design Variants

The Cambridge Handbooks on Construction Robotics discuss progress in robot systems theory and demonstrate their integration using real systematic applications and projections for offsite as well as onsite building production. The series is intended to give professionals, researchers, lecturers, and students conceptual and technical skills and implementation strategies to manage, research or teach the implementation of advanced automation and robot-technology-based processes in construction. Robot-Oriented Design introduces the design, innovation and management methodologies that are key to the realization and implementation of the advanced concepts and technologies presented in the subsequent volumes. This book describes the efficient deployment of advanced construction and building technology. It is concerned with the coadaptation of construction products, processes, organization and management, and with automated/robotic technology, so that the implementation of modern technology becomes easier and more efficient. It is also concerned with technology and innovation management methodologies and the generation of life cycle-oriented views related to the use of advanced technologies in construction.

Books in Print Supplement

The IGBT device has proved to be a highly important Power Semiconductor, providing the basis for adjustable speed motor drives (used in air conditioning and refrigeration and railway locomotives), electronic ignition systems for gasolinepowered motor vehicles and energy-saving compact fluorescent light bulbs. Recent applications include plasma displays (flat-screen TVs) and electric power transmission systems, alternative energy systems and energy storage. This book is the first

available to cover the applications of the IGBT, and provide the essential information needed by applications engineers to design new products using the device, in sectors including consumer, industrial, lighting, transportation, medical and renewable energy. The author, B. Jayant Baliga, invented the IGBT in 1980 while working for GE. His book will unlock IGBT for a new generation of engineering applications, making it essential reading for a wide audience of electrical engineers and design engineers, as well as an important publication for semiconductor specialists. Essential design information for applications engineers utilizing IGBTs in the consumer, industrial, lighting, transportation, medical and renewable energy sectors. Readers will learn the methodology for the design of IGBT chips including edge terminations, cell topologies, gate layouts, and integrated current sensors. The first book to cover applications of the IGBT, a device manufactured around the world by more than a dozen companies with sales exceeding $5 Billion; written by the inventor of the device.

Control System Design

American Book Publishing Record

This is the first English edition of an established work on cost-driven product design and development. It offers tried and tested methods for understanding, influencing and reducing product costs. The methodology and organization of cost management, as well as the effects on each type of cost are described. Using this knowledge the product developer can assume responsibility for costs. There are numerous examples and detailed derivation of results.

International Journal of Manufacturing Technology and Management

* Implement and use Variant Configuration with SAP * Build and maintain a complete product model * Updated coverage on SAP ERP 6.0 enhancement pack 5 and CRM 7.0 With this all-inclusive reference, you have everything you need to implement, customize, and use Variant Configuration with SAP. Whether you're a consultant, work directly with variant configuration, or are a manager, this book contains essential information you need in order to make key decisions on how Variant Configuration works best for your company. Variant Configuration in ERP and CRM Understand how to integrate Variant Configuration in processes such as quality management and customer service, and explore the necessary Customizing steps. Advanced Integration Topics Find extensive coverage on business processes for SAP ERP, including the Order Engineering Workbench, planning Variant Configuration, and more. Industry-Specific Solutions Learn about unique configurations and enhancements that are possible within specific industries and how to manage them, accompanied by customer examples and practical suggestions.Expert Knowledge Benefit from the authors' and SAP customers' notes on special challenges encountered when implementing and using Variant Configuration for product models. Updated and

Expanded This new edition covers integrated Product and Process Engineering (iPPE), Product Data Replication (PDR), the new PLM environment, and much more. Highlights Product Model * Configuration profile and scenarios Business Processes in SAP ERP * Integrated process and product engineering (iPPE) * Integration, Customizing Product Configuration * Variant Configurator LO-VC * Internet Pricing and Configurator (IPC) Challenges * Performance optimization, change services * Product Data Replication (PDR) Project and Practical Reports * Industry solution DIMP reports, project managers, SAP customers and partners * Configuration Workgroup (CWG) and outlook on SAP Business ByDesign The Authors Uwe Blumohr, Manfred Munch, and Marin Ukalovic work at SAP and hold different positions in the area of Variant Configuration.

Proceedings of the ASME Design Engineering Technical Conferences

This book constitutes the refereed post-proceedings of the 9th IFIP WG 5.1 International Conference on Product Lifecycle Management, PLM 2012, held in Montreal, Canada, in July 2012. The 58 full papers presented were carefully reviewed and selected from numerous submissions. They cover a large range of topics such as collaboration in PLM, tools and methodologies for PLM, modeling for PLM, and PLM implementation issues.

Growing Modular

The aim of this book is to present the terminology, applications, trends, and developments in Product Lifecycle Management (PLM). This book has a total of seven chapters that treat the fundamental and future terminology used in PLM, aspects regarding the design, customization, and development of products, products testing, supply chain optimization, and recycling of the products made of special materials.

ROMANCE ACTION & ADVENTURE MYSTERY & THRILLER BIOGRAPHIES & HISTORY CHILDREN'S YOUNG ADULT FANTASY HISTORICAL FICTION HORROR LITERARY FICTION NON-FICTION SCIENCE FICTION