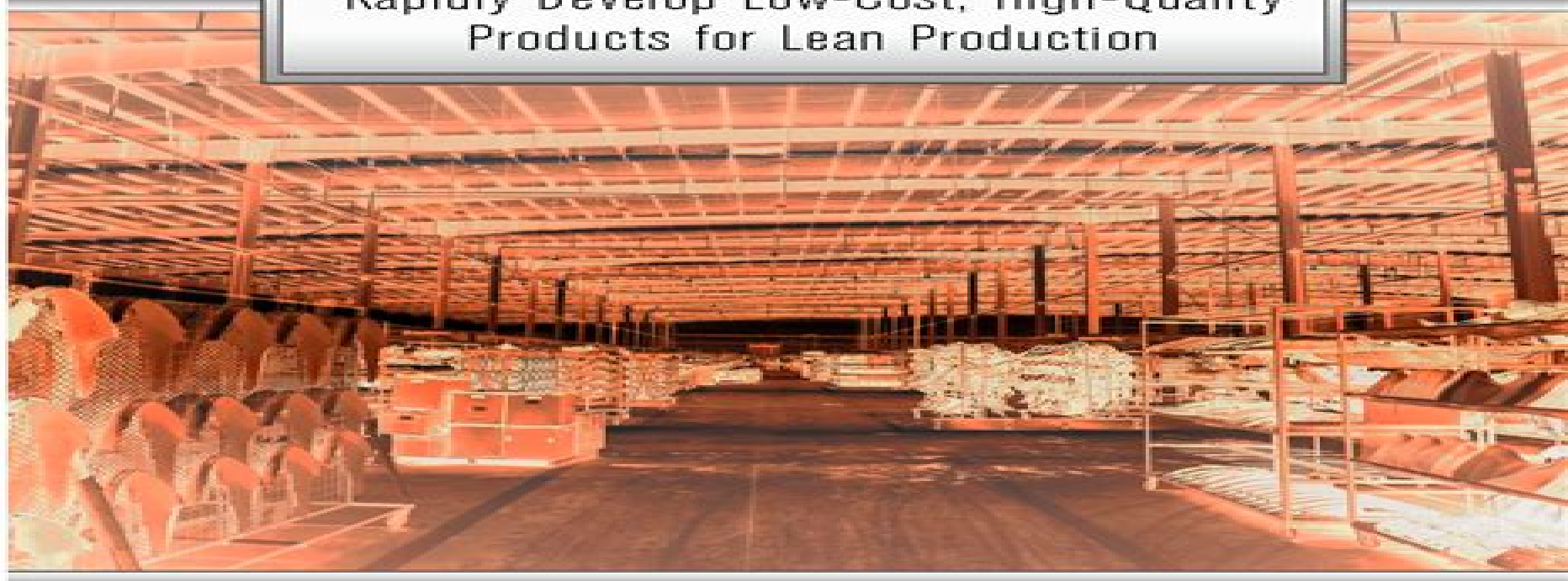


DAVID M. ANDERSON

# DESIGN *for* MANUFACTURABILITY

How to Use Concurrent Engineering to  
Rapidly Develop Low-Cost, High-Quality  
Products for Lean Production



**CRC Press**  
Taylor & Francis Group

A PRODUCTIVITY PRESS BOOK

# Design For Manufacturability How To Use Concurrent Engineering To Rapidly Develop Low Cost High Quality Products For Lean Production

**Wolfgang Freibichler, Anselm Stiehl**



## **Design For Manufacturability How To Use Concurrent Engineering To Rapidly Develop Low Cost High Quality Products For Lean Production:**

**Design for Manufacturability** David M. Anderson, 2020-05-11 Achieve any cost goals in half the time and achieve stable production with quality designed in right the first time Design for Manufacturability How to Use Concurrent Engineering to Rapidly Develop Low Cost High Quality Products for Lean Production is still the definitive work on DFM This second edition extends the proven methodology to the most advanced product development process with the addition of the following new unique and original topics which have never been addressed previously These topics show you how to Cut cost from 1 2 to 1 10 in 9 categories with ways to remove that much cost from product charges and pricing Commercialize innovation starting with Manufacturable Research and learning from the new section on scalability you will learn how to design products and processing equipment to quickly scale up to any needed demand or desired growth Design product families that can be built on demand in platform cells that also mass customize products to order Make Lean production easier to implement with much more effective results while making build to order practical with spontaneous supply chains and eliminating forecasted inventory by including an updated chapter on Designing Products for Lean Production The author s 30 years of experience teaching companies DFM based on pre class surveys and plant tours is the foundation of this most advanced design process It includes incorporating dozens of proven DFM guidelines through up front concurrent engineering teamwork that cuts the time to stable production in half and curtails change orders for ramps rework redesign substituting cheaper parts change orders to fix the changes unstable design specs part obsolescence and late discovery of manufacturability issues at periodic design reviews This second edition is for the whole product development community including Engineers who want to learn the most advanced DFM techniques Managers who want to lead the most advanced product development Project team leaders who want to immediately apply all the principles taught in this book in their own micro climate Improvement leaders and champions who want to implement the above and ensure that the company can design products and versatile processing equipment for low volume high mix product varieties Designing half to a tenth of cost categories can avoid substituting cheap parts which degrades quality and encourages standardization and spontaneous supply chains which will encourage Lean initiatives Using cellular manufacturing to shift production between lines for mixed production of platforms and build to order to offer the fastest order fulfillment can beat any competitors delivery time

*Design for Manufacturability* David M. Anderson, 2014-02-04 Design for Manufacturability How to Use Concurrent Engineering to Rapidly Develop Low Cost High Quality Products for Lean Production shows how to use concurrent engineering teams to design products for all aspects of manufacturing with the lowest cost the highest quality and the quickest time to stable production Extending the concepts of desi

**Design for Manufacturability** David M. Anderson, 2014-02-04 Design for Manufacturability How to Use Concurrent Engineering to Rapidly Develop Low Cost High Quality Products for Lean Production shows how to use

concurrent engineering teams to design products for all aspects of manufacturing with the lowest cost the highest quality and the quickest time to stable production Extending the concepts of design for manufacturability to an advanced product development model the book explains how to simultaneously make major improvements in all these product development goals while enabling effective implementation of Lean Production and quality programs Illustrating how to make the most of lessons learned from previous projects the book proposes numerous improvements to current product development practices education and management It outlines effective procedures to standardize parts and materials save time and money with off the shelf parts and implement a standardization program It also spells out how to work with the purchasing department early on to select parts and materials that maximize quality and availability while minimizing part lead times and ensuring desired functionality Describes how to design families of products for Lean Production build to order and mass customization Emphasizes the importance of quantifying all product and overhead costs and then provides easy ways to quantify total cost Details dozens of design guidelines for product design including assembly fastening test repair and maintenance Presents numerous design guidelines for designing parts for manufacturability Shows how to design in quality and reliability with many quality guidelines and sections on mistake proofing poka yoke Describing how to design parts for optimal manufacturability and compatibility with factory processes the book provides a big picture perspective that emphasizes designing for the lowest total cost and time to stable production After reading this book you will understand how to reduce total costs ramp up quickly to volume production without delays or extra cost and be able to scale up production rapidly so as not to limit growth

**Technische Zuverlässigkeit mit MINITAB®** Stefan Einbock, Arber Avdyli, 2021-09-09 Produkte werden komplexer und Kundenansprüche bzgl. Nutzungsdauer, Qualität, Sicherheitserwartung und Kosten steigen. Man ist dieses Spannungsverhältnis verstärkt durch eine höhere Auslastung der Bauteile und effizientere Erprobungsmethoden. Hier helfen die Methoden der technischen Zuverlässigkeit, denn bei Kenntnis der Lasten und der Werkstoffgrenzen können Bauteile höher ausgelastet und Erprobungskosten gespart werden. Die Autoren und Trainer der technischen Zuverlässigkeit Dr. Ing. Stefan Einbock und M.Sc. Arber Avdyli fassen deswegen die Grundlagen der technischen Zuverlässigkeit auf verständliche Art zusammen und liefern konkrete und direkt anwendbare Methoden für einen selbstständig erstellten Zuverlässigkeitsnachweis. Um den Inhalt verständlich zu vermitteln, werden zahlreiche Abbildungen verwendet und eine einfache und klare Sprache gewählt. Die Theorie wird um praxisrelevante Ergänzungen ergänzt. Eine einfache Anwendung der Methoden ermöglichen die begleitenden Excel-Tools. Zusätzlich werden Erfahrungswerte mitgeliefert und Schritt für Schritt Lösungen vorgestellt, so dass eine Berechnung von Zuverlässigkeiten einfach möglich ist, auch für Einsteiger. Dieses Buch versetzt Sie dadurch in die Lage, sich schnell und einfach in die technische Zuverlässigkeit einzuarbeiten und diese Methoden richtig anzuwenden. Erprobungen abzuleiten und auszuwerten, Ihre Bauteile höher auszulasten, Kosten bei der Erprobung einzusparen.

*Driving Cost-effective Innovation With Concurrent Systems: Strategy, Process, Organization, & Tools/technologies* Frank

Montgomery Hull, 2024-09-20 This book quantifies best practices for developing innovative products cost effectively Analyses of dozens of studies show how managing the work of people collaborating in parallel creates products faster cheaper and better in any organization Concurrent systems deploy four kinds of practice simultaneously to synergistically achieve high performance Strategy Process Organization and Tools Technologies SPOT Appendices in every chapter enable stakeholders to benchmark their practices against Best in Class standards and identify gaps A Big Bang index prioritizes best practices for improvement A Composite Model algorithm enables designers of product development systems to further boost performance capabilities by combining complementary practices additively and synergistically Managers and stakeholders collaborate in using these unique methods to build a should be vision of value development by closing gaps in their as is system to achieve diverse competitive advantages Case studies highlight how dozens of enterprises have successfully implemented SPOT practices to improve their performance A transformation assurance process TAP provides tactics for champions to co lead a five step change journey 1 Envisioning 2 Diagnosing 3 Assessing 4 Implementing and 5 Improving *Proceedings of the International Symposium for Production Research 2018* Numan M. Durakbasa, M. Günes Gencyilmaz, 2018-08-14 The conference aims at forming a unique platform to bring together academicians and practitioners from industrial engineering and management engineering as well as from other disciplines working on production function applying the tools of operational research and production operational management Topics treated include computer aided manufacturing industry 4 0 big data and analytics flexible manufacturing systems fuzzy logic industrial applications information technologies in production management optimization production economy production planning and control productivity and performance management project management quality management risk analysis and management supply chain management **COST OPTIMISATION** S.B. Kumar, 2018-11-12 Prime objective of any business is to get more PROFIT on investment We are in the customer driven era Producer s monopoly for sales price fixing has gone Either we are owner of any business or employees of any organizations our growth are linked with profitability profitability only If profit is there growing music will go on if not then existence of all will be in question Firefighting resignation demotion demotivation and termination everything shall be started without looking at your past contributions dedications Business owner will be restless due to pending debts installments and other essential expenditure Now the formula for profit has changed PROFIT Total sales revenue Total costs We have only two options for survival growth Either we are able to make more sell more or have to reduce our total costs But how Which areas we have to attack first Are we aware about SWOT Do we have capable knowledgeable team What are different cost reduction ideas What are different methodologies to benchmark optimize that The objective of this small book is the same There are many tested trusted ideas developed by author for Big Medium Small New startup CEO COO Plant heads Departmental heads Managers Engineers supervisors Talented workmen in this book under separate categories After implementation of these ideas any company can drastically improve their balance sheets Even one good idea s

implementation can save some lakhs crores of rupees for your future regular growth breakthrough improvements      Cost Management in Plastics Processing Robin Kent, 2017-09-29 Cost Management in Plastics Processing Strategies Targets Techniques and Tools Fourth Edition makes readers think about current practices and how to go forward with effective cost management This is a practical workbook that provides a structured approach to reducing costs in plastics processing for all the major plastics shaping processes moulding extrusion forming as well as elsewhere in the company e g in factory services and non manufacturing areas Competition in all manufacturing sectors is increasing and there is continuous pressure to drive costs down and to increase cost management Good cost management improves profits and margins improves management control and opens the door to becoming a world class company The approach throughout this book looks rigorously at where costs are incurred and proposes projects and targets for cost reduction This book is designed to provide a well structured map broken down into simple tasks and achievable goals This book offers a structured approach to the techniques of cost management from how costs are calculated by accountants to the effective use of machines and labor to the minimization of waste It begins by looking at traditional methods of accounting and costing and whether these are helpful or accurate for project management Practical examples of cost management in plastics processing are included together with many useful flow charts and diagrams to illustrate the points under discussion Enables plastics processors to institute an effective cost management system going beyond simply trying to cut costs Provides a holistic perspective on cost management shining a light on areas on costs which may not have previously been considered or accounted for and proposing projects and targets for cost reduction Serves as a route map to help companies move toward improved margins and greater profitability      **Encyclopedia of Renewable and Sustainable Materials** , 2020-01-09 Encyclopedia of Renewable and Sustainable Materials Five Volume Set provides a comprehensive overview covering research and development on all aspects of renewable recyclable and sustainable materials The use of renewable and sustainable materials in building construction the automotive sector energy textiles and others can create markets for agricultural products and additional revenue streams for farmers as well as significantly reduce carbon dioxide CO2 emissions manufacturing energy requirements manufacturing costs and waste This book provides researchers students and professionals in materials science and engineering with tactics and information as they face increasingly complex challenges around the development selection and use of construction and manufacturing materials Covers a broad range of topics not available elsewhere in one resource Arranged thematically for ease of navigation Discusses key features on processing use application and the environmental benefits of renewable and sustainable materials Contains a special focus on sustainability that will lead to the reduction of carbon emissions and enhance protection of the natural environment with regard to sustainable materials      **Project Management for Mobility Engineers: Principles and Case Studies** Angelo Mago, 2020-03-17 Project Management for Mobility Engineers Principles and Case Studies provides the latest training

workshops and support consultation to Design and Development companies to optimize their New Product Development NPD strategies organizational structures and Design Document Management Systems to respond to the fast paced and ever evolving demands and challenges facing today's mobility companies      *Praxishandbuch Operative Wertsteigerung* Wolfgang Freibichler, Anselm Stiehl, 2017-11-24 Wie können Eigentümer und Manager durch operative Verbesserungen den Wert eines Unternehmens nachhaltig steigern Basierend auf ihrer mehrjährigen Beratungserfahrung geben die Autoren fundierte und praxistaugliche Hinweise wie die wesentlichen Werttreiber identifiziert und positiv beeinflusst werden können Die klare Struktur des Handbuchs ermöglicht es gezielt nachzuschlagen welche Best Practice Ansätze Prozessoptimierungen oder Management Werkzeuge für individuelle Herausforderungen besonders geeignet sind und auf welche finanziellen Werttreiber diese wirken Das Handbuch ist aufgrund seines Aufbaus besonders für Unternehmer und Beiräte Geschäftsführer und Manager sowie Finanzinvestoren und Beteiligungsmanager geeignet Mithilfe zahlreicher Zusammenfassungen Abbildungen und Checklisten können wesentliche Konzepte auch in kurzer Zeit verinnerlicht und unmittelbar angewendet werden      *The Marketing Challenge for Industrial Companies* Claudio A. Saavedra, 2016-04-29 This book discusses the differences between consumer marketing and industrial marketing as well as the challenges faced when putting each into practice It identifies important distinctions in terms of product functionality market research concepts and techniques market segmentation pricing sales force and product launch Furthermore it reviews significant variations concerning other issues such as branding distribution product development and the organizational structure of the commercial department Each chapter features both authoritative novel concepts suited for global application and hands on protocols By presenting these concepts and their implementation this book is the first of its kind in the field to help practitioners avoid using consumer marketing techniques that could in fact be inappropriate for and detrimental to an industrial company strategy      **Advances in Manufacturing II** Adam Hamrol, Marta Grabowska, Damjan Maletic, Ralf Woll, 2019-04-30 This book covers a wide range of management issues concerning planning control and continuous improvement It especially focuses on the management of the enterprise and production processes in the era of globalization discussing the process of transferring production to developing countries covering issues in technological culture and reporting on quality control issues and on problems related to continuous process improvement Modern strategies such as Six Sigma and lean manufacturing are also discussed Another topic concerns the management of the education sphere and how to develop the latter to prepare employees to the changes brought by the technical development Based on papers presented at the 6th International Scientific Technical Conference MANUFACTURING 2019 held in Poznan Poland on May 19-22 2019 this book bridges issues in quality engineering with concepts of ergonomics and sociology thus offering a timely practice oriented guide to both the engineers and managers of the future      *Green Manufacturing for Industry 4.0* Rityuj Singh Parihar, Naveen Jain, 2024-06-19 With the introduction of Industry 4.0 in manufacturing industries the paradigm shift from conventional to green manufacturing is quite evident

Manufacturing industries achieving sustainability objectives is now the prime concern. This paradigm creates more efficient products using green processes and practices, i.e. those that produce minimal environment hazardous waste. This book provides an overview of the broad field of research on green manufacturing with a focus on the Fourth Industrial Revolution to encourage interest in the topic. It includes the dissemination of original findings on Industry 4.0 pathways and practices applied to green manufacturing development as well as the contribution of new perspectives and roadmaps to those eager to realize the benefits of Industry 4.0 to transform the manufacturing sector into a more environment friendly state. This book shows how the innovations of Industry 4.0 work together to improve society, save lives, create efficiencies and ultimately achieve the objectives of sustainability. To develop a smart green manufacturing technology, it is important to understand the prerequisites, technological developments and technological aspects that conceptually describe this transformation. This understanding should also include practices, models and real world experiences. At the same time, the goal is to comprehend how Industry 4.0 technologies and smart products could result in environmental, economic and social benefits. Essentially, the goal of this book is to provide the fundamentals of the cutting edge smart technology driven production maneuver known as Industry 4.0, primarily to determine and validate its potential as a practice that promotes green manufacturing to ultimately revolutionize the competitiveness of businesses and regions.

*Remanufacturing and Remanufacturability Assessment for the Circular Economy* Yang Shanshan, S. K. Ong, A.Y.C. Nee, 2022-12-02. This book presents decision support tools that can be used in the early design stage to analyze the feasibility of a product and its components for remanufacturing. It also covers how to design a product specifically for remanufacturing and offers supporting case studies. This is a comprehensive solutions guide for remanufacturing decision making. The book illustrates an approach that can be used at the product End of Life (EOL) stage to generate optimized recovery plans for the returned products. Opportunities for Industry 4.0 to support remanufacturing along with case studies are included to showcase the decision making tools. *Remanufacturing and Remanufacturability Assessment for the Circular Economy: A Solutions Guide* will be of interest to practitioners, business professionals and researchers that work in the industrial and manufacturing sectors. Those involved with supply chain management and advanced technologies associated with Industry 4.0 sustainability and integrated techniques of circular supply chains will also find this book very useful.

*Quality Planning and Assurance* Herman Tang, 2021-11-23. **QUALITY PLANNING AND ASSURANCE** Discover the most crucial aspects of quality systems planning critical to manufacturing and service success. In *Quality Planning and Assurance: Principles, Approaches and Methods for Product and Service Development*, accomplished engineer Dr. Herman Tang delivers an incisive presentation of the principles of quality systems planning. The book begins with an introduction to the meaning of the word quality, before moving on to review the principles of quality strategy and policy management. The author then offers a detailed discussion of customer needs and the corresponding quality planning tasks in design phases as well as a treatment of the design processes necessary to ensure product or service



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**Mechanical Design and Manufacturing of Electric Motors** Wei Tong,2022-05-20 This Second Edition of Mechanical Design and Manufacturing of Electric Motors provides in depth knowledge of design methods and developments of electric motors in the context of rapid increases in energy consumption and emphasis on environmental protection alongside new technology in 3D printing robots nanotechnology and digital techniques and the challenges these pose to the motor industry From motor classification and design of motor components to model setup and material and bearing selections this comprehensive text covers the fundamentals of practical design and design related issues modeling and simulation engineering analysis manufacturing processes testing procedures and performance characteristics of electric motors today This Second Edition adds three brand new chapters on motor breaks motor sensors and power transmission and gearing systems Using a practical approach with a focus on innovative design and applications the book contains a thorough discussion of major components and subsystems such as rotors shafts stators and frames alongside various cooling techniques including natural and forced air direct and indirect liquid phase change and other newly emerged innovative cooling methods It also analyzes the calculation of motor power losses motor vibration and acoustic noise issues and presents engineering analysis methods and case study results While suitable for motor engineers designers manufacturers and end users the book will also be of interest to maintenance personnel undergraduate and graduate students and academic researchers

**Ergodesign Methodology for Product Design** Marcelo M. Soares,2021-10-28 This book presents a co design detailed methodology that will enable the reader to develop human centered product designs considering the user s needs skills and limitations The purpose of this book is to produce an ergonomic design methodology in which the user s voice can be translated into product requirements in a way that designers and manufacturers can use characterizing it as a co design methodology It discusses important topics including ergonomics and product design design specifications project evaluation modeling and prototyping product safety human error kansei affective engineering usability and user experience models of usability methods for research and evaluation of usability

methods for evaluation of user experience preliminary strategic design planning detailing design and design ergonomic and pandemics The book offers a human centered design methodology that allows the reader to carry out analysis and design projects for both products aimed at the disabled user population and those that serve the general population It will be a valuable reference text for undergraduate and graduate students and professionals in the fields of ergonomics design architecture engineering and related fields It can also be used by students and professionals of physiotherapy and occupational therapy interested in designing products for people with special needs Manufacturing System Throughput Excellence Herman Tang,2024-07-08

Improve key metrics of manufacturing performance with this accessible guide Manufacturing throughput refers to the quantity of products that can be produced within a period and with available resources Enhancing manufacturing throughput is crucial for a business s success However managing and improving throughput can be challenging due to the complexity of manufacturing systems and their operations which involve numerous variables To effectively manage and improve system throughput it is essential to adopt a scientifically guided methodology and practices Manufacturing System Throughput Excellence is a unique book that provides a concise and practical overview of manufacturing throughput management It includes best practices for achieving improved throughput on the production floor and explores the connections between production management and system design The book emphasizes practical executable approaches drawing on the author s 25 years of industry and academic experience It serves as an indispensable tool for businesses looking to boost manufacturing efficiency and drive improved outcomes Manufacturing System Throughput Excellence readers will discover The latest and effective approaches for achieving manufacturing operational excellence Key pillars of manufacturing excellence production management maintenance management quality management and system design Specific principles and methods on bottleneck identification and buffer analysis Insightful connections between academic research and industrial practice Summaries and end of chapter exercises to reinforce learning

Manufacturing System Throughput Excellence is a unique and comprehensive guide for manufacturing practitioners and researchers as well as mechanical and industrial engineering students in advanced manufacturing courses **System Engineering Management** Benjamin S. Blanchard,John E. Blyler,2016-02-16 A practical step by step guide to total systems management Systems Engineering Management Fifth Edition is a practical guide to the tools and methodologies used in the field Using a total systems management approach this book covers everything from initial establishment to system retirement including design and development testing production operations maintenance and support This new edition has been fully updated to reflect the latest tools and best practices and includes rich discussion on computer based modeling and hardware and software systems integration New case studies illustrate real world application on both large and small scale systems in a variety of industries and the companion website provides access to bonus case studies and helpful review checklists The provided instructor s manual eases classroom integration and updated end of chapter questions help reinforce the material

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