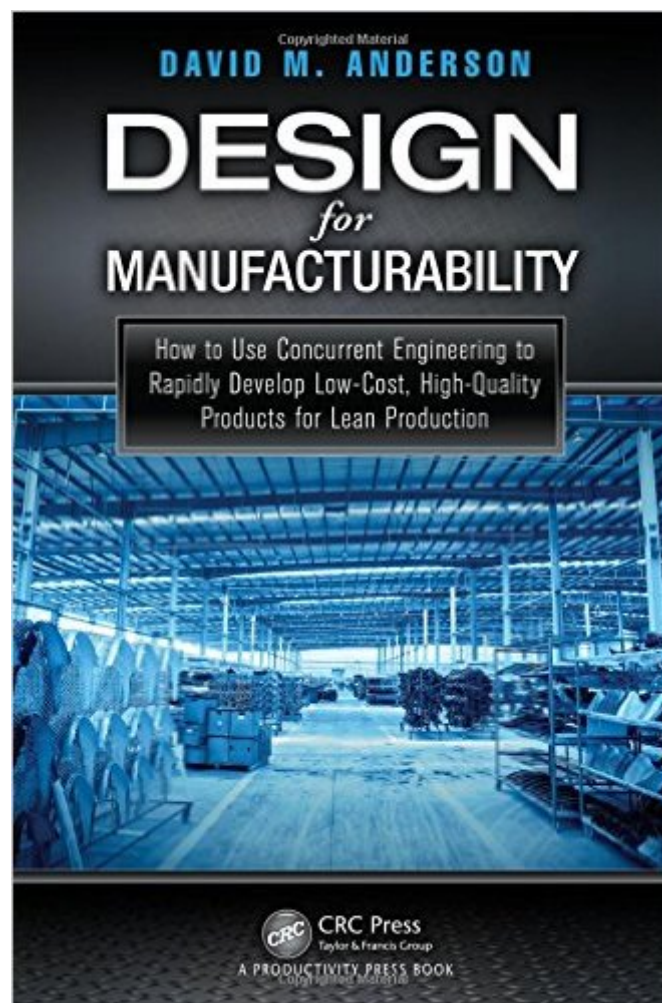# Design For Manufacturability: How To Use Concurrent Engineering To Rapidly Develop Low-Cost, High-Quality Products For Lean Production

Synopsis

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.

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Design for Manufacturability: How to Use Concurrent Engineering to Rapidly Develop Low-Cost, High-Quality Products for Lean Production LEAN: Lean Tools - 5S (Lean, Lean Manufacturing, Lean Six Sigma, Lean 5S, Lean StartUp, Lean Enterprise) (LEAN BIBLE Book 3) LEAN: Lean Bible - Six Sigma & 5S - 3 Manuscripts + 1 BONUS BOOK (Lean Thinking, Lean Production, Lean Manufacturing, Lean Startup, Kaizen) Lean: QuickStart Guide - The Simplified Beginner's Guide To Lean (Lean, Lean Manufacturing, Lean Six Sigma, Lean Enterprise) Lean Six Sigma: and Lean QuickStart Guides - Lean Six Sigma QuickStart Guide and Lean QuickStart Guide (Lean Six Sigma For Service, Lean Manufacturing) Lean Six Sigma: The Ultimate Guide To Lean Six Sigma With Tools For Improving Quality And Speed! (Lean, Six Sigma, Quality Control) Low salt. Low salt cooking. Low salt recipes.: Saltless: Fresh, Fast, Easy. (Saltless: NEW fresh, fast, easy low salt, low sodium cookbook) (Volume 2) Low Carb Dump Meals: 25 Easy, Delicious and Healthy Dump Dinner Recipes You Won't Believe Are Actually Low Carb!: (low carbohydrate, high protein, low ... Ketogenic Diet to Overcome Belly Fat) Lean Six Sigma: Combining Six Sigma Quality with Lean Production Speed Lean Six Sigma: Value Stream Mapping: Simplified Beginner's Guide to Eliminating Waste and Adding Value with Lean (Lean, Six Sigma, Quick Start Beginner's Guide, Quality Control) Clojure Reactive Programming - How to Develop Concurrent and Asynchronous Applications with Clojure Lean Six Sigma for Service : How to Use Lean Speed and Six Sigma Quality to Improve Services and Transactions The Lean Design Guidebook: Everything Your Product Development Team Needs to Slash Manufacturing Cost (The Lean Guidebook Series) The Solar Food Dryer: How to Make and Use Your Own Low-Cost, High Performance, Sun-Powered Food Dehydrator Lean for Systems Engineering with Lean Enablers for Systems Engineering Axiomatic Quality: Integrating Axiomatic Design with Six-Sigma, Reliability, and Quality Engineering Lean Production Simplified, Third Edition: A Plain-Language Guide to the World's Most Powerful Production System Lean Production Simplified: A Plain-Language Guide to the World's Most Powerful Production System Lean Production Simplified, Second Edition: A Plain-Language Guide to the World's Most Powerful Production System Lean Production for Competitive Advantage: A Comprehensive Guide to Lean Methodologies and Management Practices