

Design Manufacturability Handbook James Bralla

Design for Manufacturability Handbook
Design for Manufacturability
Design for Manufacturability
Effective Transition from Design to Production
EBOOK:
Product Design and Development
Handbook of Product Design for Manufacturing
Standards for
Engineering Design and Manufacturing
Handbook of Manufacturing Processes
Design for
Manufacturability Handbook, Second Edition
Improving the Extended Value Stream
Guide to
Information Sources in Engineering
Design for Advanced Manufacturing: Technologies, and
Processes
Design and Process Integration for Microelectronic Manufacturing II [sic]
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Catalogue of the Library of the United States
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Manufacturing Engineering
American Book Publishing Record Cumulative
1998
Introduction to Manufacturing Processes
Manufacturing Review James G. Bralla James Bralla
James G. Bralla David M. Anderson David F. Ciambrone Karl Ulrich James G. Bralla Wasim Ahmed Khan James G. Bralla James G. Bralla Darren Dolcemascolo Charles Lord LaRoux K. Gillespie Lars W. Liebmann USA Patent Office R R Bowker Publishing John A. Schey
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Introduction to Manufacturing Processes Manufacturing Review *James G. Bralla James Bralla James G. Bralla David M. Anderson David F. Ciambrone Karl Ulrich James G. Bralla Wasim Ahmed Khan James G. Bralla James G. Bralla Darren Dolcemascolo Charles Lord LaRoux K. Gillespie Lars W. Liebmann USA Patent Office R R Bowker Publishing John A. Schey*

from raw materials to machining and casting to assembly and finishing the second edition of this classic guide will introduce you to the principles and procedures of design for manufacturability dfm the art of developing high quality products for the lowest possible manufacturing cost written by over 70 experts in manufacturing and product design this update features cutting edge techniques for every stage of manufacturing plus entirely new chapters on dfm for electronics dxf designing for all desirable attributes dfm for low quality production and concurrent engineering

offers a blueprint for various stages of the manufacturing process this handbook provides directions for solid and practical design including a quick check of do s and don ts as well as specific tips for developing the most producible design it also includes the details needed to forecast a

successful design project

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

taking a new product from the design stage to large scale production in a profitable efficient manner can challenge the processes of even the most advanced companies lapses in these processes drive up the cost of new products and hinder their launch into the marketplace effective transition from design to production provides an expeditio

treating such contemporary design and development issues as identifying customer needs design for manufacturing prototyping and industrial design product design and development by ulrich and eppinger presents in a clear and detailed way a set of product development techniques aimed at bringing together the marketing design and manufacturing functions of the enterprise the integrative methods in the book facilitate problem solving and decision making among people with different disciplinary perspectives reflecting the current industry toward designing and developing products in cross functional teams

a practical guide to low cost production offers a detailed overview of common manufacturing processes for the designer or manufacturing engineer covers a full range of processes from metal stamping forging casting molding thermoforming and more specifies optimum material grades and dimensional tolerance data for each production process

most books on standardization describe the impact of iso and related organizations on many industries while this is great for managing an organization it leaves engineers asking questions such as what are the effects of standards on my designs and how can i use standardization to benefit my work standards for engineering design and manuf

a comprehensive reference book for those with interest in or need to know how operations in the world s factories work and how common products components and materials are made

utilize this exacting guide to improve quality and economy of your manufactured product at every state of manufacturing this popular tool gives you the know how to design products for function quality reliability and maintainability

this book discusses a system for extending lean manufacturing across the entire supply chain it is divided into three parts planning and analysis of the lean extended value stream implementation of a lean supply chain and sustaining and continuously improving the lean extended value chain

the only source that focuses exclusively on engineering and technology this important guide maps the dynamic and changing field of information sources published for engineers in recent years lord highlights basic perspectives access tools and english language resources directories encyclopedias yearbooks dictionaries databases indexes libraries buyer s guides internet resources and more substantial emphasis is placed on digital resources the author also discusses how engineers and scientists use information the culture and generation of scientific information different types of engineering information and the tools and resources you need to locate and access that material other sections describe regulations standards and specifications government resources professional and trade associations and education and career resources engineers scientists librarians and other information professionals working with engineering and technology information will welcome this research

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this revision aims to address changes that have taken effect since the publication of the second edition the most significant change has been in the attitude of industry to concurrent engineering in 1987 mostly lip service was paid to it today it has become general practice in most competitive corporations in the second edition the author discussed this as the manufacturing system in the third edition it becomes the focal point concurrent engineering involves the whole product realization process including product concept performance criteria mechanical design and analysis materials selection process planning and modeling production control automation assembly management and others an introductory text cannot possibly cover all of these topics hence the emphasis of the third edition remains on the physical principles and the application of these principles to processes the major difference relative to the second edition will be the emphasis on interactions between process and design capabilities and limitations of processes will be highlighted to show what they mean in terms of design possibilities and design modifications will be suggested for ease of manufacture impact on the environment and possibilities for recycling will be woven into the entire text

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