



PRODUCT DESIGN AND VALUE ENGINEERING

By

Dr. M. A. Bulsara and Dr. H. R. Thakkar

REVISED
& ENLARGED

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ABOUT THE BOOK

The text-book aims at presenting the topics of Product Design and Value Engineering in a simple manner. Each topic of the book has been arranged in such a way that reader is empowered with in-depth knowledge in the subject.

This is thoroughly revised and extensively enlarged edition. One new chapter on Product Design has been added. Some of the topics relevant to the subject have been added and few have also been described elaborately.

First six chapters contain topics on Product Design and Product Development. Product Design and Product development is a challenging task and can be learnt through experience. Many good universities have incorporated this course to introduce the challenges and difficulties in product development process to the students. A product can be developed at lowest possible cost if the process is planned systematically. Initial few chapters of the book cover systematic procedure for "Product Development" in detail, supported with relevant examples.

Subsequent five chapters of the book cover the Value Engineering concept. Value Engineering approach is used to eliminate the unnecessary cost from the product. The implementation of Value Engineering concept has been elaborately described as value engineering job plan along with value engineering project selection, FAST diagram and Life Cycle Cost with relevant case studies.

Last chapter deals with practical aspects of manufacturing, affecting the design considerations.

The salient features of this book are:

- *Lucid description of Product Development process and Value Engineering Concept.
- *Illustrative examples within the text.
- *Comprehensive summary at the end of each chapter.
- *Exercise at the end of each chapter.
- *Solved sample papers (STU).
- *Case studies of various products to illustrate product development process.
- *Value Engineering Training programme course.
- *Illustrative engineering drawings to understand design for manufacture.

The book covers major syllabus of the subject Product Design and Value Engineering (Subject code: 171904 for B.E., Semester VI) of Mechanical Engineering branch prescribed by Gujarat Technical University (GTU) and other Indian Universities. The book will also be of immense help to the practicing engineers.

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Production/operations Management Thomas E. Hendrick,1985 **The Management of Value Engineering in Defense Contracts** United States. Department of Defense,1969 Cost-Efficient Design Klaus Ehrlenspiel,Alfons Kiewert,Udo Lindemann,2009-09-02 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

Implementation of Value Engineering Vishal Anand,2017-06-15 Value Engineering is a very basic concept of product design and manufacturing The implementation plays a crucial role while manufacturing My book will help you in finding ways to implement this technique Various processes and methodologies are mentioned in detail with easily understandable pictures and charts This book will guide you in various regards and at the end you will be able to apply value engineering to your respective research and can add some value to your product Target Costing and Value Engineering Robin Cooper,2017-10-19 What would happen if everyone in your company followed a disciplined approach to cost reduction Go

ahead imagine it What would it look like How can it be done The answer smart cost management Effective cost management must start at the design stage As much as 90 95% of a product s costs are added in the design process That is why effective cost management programs focus on design and manufacturing The primary cost management method to control cost during design is a combination of target costing and value engineering Target Costing Objectives Identify the cost at which your product must be manufactured at if it is to earn its profit margin at its expected target selling price Break the target cost down to its component level and have your suppliers find ways to deliver the components they sell you at the set target prices while still making adequate returns Value Engineering The connection to function An organized effort and team based approach to analyze the functions of goods and services that the design stage and find ways to achieve those functions in a manner that allows the firm to meet its target costs The result Added value for your company development costs on line with added value for your company development costs on line with selling prices and added value for your customer higher quality products that meet possibly even exceed customer expectations

Engineering Design Methods Nigel Cross,2021-02-17 A revised text that presents specific design methods within an overall strategy from concept to detail design The fifth edition of *Engineering Design Methods* is an improved and updated version of this very successful classic text on engineering product design It provides an overview of design activities and processes detailed descriptions and examples of how to use key design methods and outlines design project strategies and management techniques Written by a noted expert on the topic the new edition contains an enriched variety of examples and case studies and up to date material on design thinking and the development of design expertise This new edition opens with a compelling original case study of a revolutionary new city car design by ex Formula One designer Gordon Murray The study illustrates the complete development of a novel design and brings to life the process of design from concept through to prototype The core of the book presents detailed instructions and examples for using design methods throughout the design process ranging from identifying new product opportunities through establishing functions and setting requirements to generating evaluating and improving alternative designs This important book Offers a revised and updated edition of an established successful text on understanding the design process and using design methods Includes new material on design thinking and design ability and new examples of the use of design methods Presents clear detailed and illustrated presentations of eight key design methods in engineering product design Written for undergraduates and postgraduates across all fields of engineering and product design the fifth edition of *Engineering Design Methods* offers an updated substantial and reliable text on product design and innovation

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PRODUCTION AND OPERATIONS MANAGEMENT, THIRD EDITION PANNEERSELVAM, R.,2012-03-02 This widely adopted and well established book now in its Third Edition provides the students of management and engineering with the latest techniques in production and operations management considered so vital for maximizing productivity and profitability in business What distinguishes the text is a comprehensive coverage of topics such as contract laws capacity requirement planning vendor evaluation including AHP method quality function deployment and enterprise resource planning The new topics which are of current interest along with the characteristic features and easy to read style would enhance the value of this text The book is primarily intended as a text for postgraduate students of management undergraduate students of mechanical engineering and undergraduate and postgraduate students of industrial and production engineering courses This profusely illustrated and well organized text with its fine blend of theory and applications would also be useful for the practicing professionals NEW TO THIS EDITION Objective Type Questions at the end of each chapter Additional example problems in Chapters 5 and 17 XYZ VED FSN and SDE analyses Process planning case study in Chapter 2 Case Study Questions in Chapters 2 3 4 5 6 7 9 10 11 13 14 and 15 Heuristic to minimise total tardiness in single machine scheduling KEY FEATURES Focuses on productivity related concepts and techniques Provides solved examples at suitable places Includes sufficient tables and diagrams to illustrate the concepts Updates the reader with many efficient and modern algorithms Contains Answers to selected questions and Objective type questions Design Methods in Engineering and Product Design I. C. Wright,1998 The ability to design industrial or consumer products that meet the requirements of the

customer is essential for company survival in a competitive market place The complexity of many of today s products together with intense pressure to reduce cost and time to market means that companies must get the design right at the first attempt This book introduces some of the methods that companies employ to minimise the chance of unpleasant surprises after the product has been launched After describing the iterative and interactive nature of design the book examines the information that designers need before they can set about the task of defining a commercially successful product and the problems associated with communicating this information within a company

Value Engineering James Brown,1992 Value Engineering or Value Analysis is widely used to study and apply cost saving techniques during a product s life cycle from design and development to purchasing and manufacturing The implementation of Value Engineering results in more for less and it is rapidly becoming the favored method of planners and engineers to design parts equipment and products in a way that will provide the lowest possible cost without sacrificing reliability In *Value Engineering A Blueprint* James Brown uses his vast experience to explain fully every aspect of the subject from its history to application It takes the novice or experienced engineer through every phase of the process step by step and even explains how to write a VE report Value Engineering is so important that Armed Services Procurement Regulations specify that all contracts over a stated dollar value must include either a VE program or incentive clause Read this important book and discover how Value Engineering can contribute to your company s success

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Practical Approach for Value Engineering using Tools and Techniques P. Arjunraj,2023-08-19 This book on Value Engineering is an excellent tool for those who want to learn more about the practical aspects of Value Engineering Value Engineering concept has become crucial in today s highly competitive and globalized world where companies and organizations are constantly striving to provide enhanced value to their customers This can include redesigning re engineering or eliminating certain aspects of the product or service to increase its value without comprising on its quality Main focus of this book is the integration of Value Engineering Basic concepts and their application in today s world This book is structured such that the reader will easily guide through the practical process of Value engineering This book presents some of the case studies and FAST models of the products of the modern world which are being used in the present times The book is composed of 8 chapters each focusing on specific topic 1 Introduction to Function Analysis 2 Value Engineering Techniques 3 The Concept of Creativity 4 Lean tool and Value Stream Mapping 5 Value Engineering in Evaluation phase 6 FAST Overview 7 Application of Value Engineering in Avionics Space shuttle and Satellite 8 FAST Model case studies

Design for Six Sigma for Service Kai Yang,2005-06-21 The primary objective of this new book is to provide a comprehensive reference for those who work in a service industry setting Unlike *Design for Six Sigma a Roadmap for Product Development* this new book will address the 5 leading issues in the service industry which are customer satisfaction cost reduction value improvement change management and process performance measurements

ASME

Engineer's Data Book Clifford Matthews, 2005 This greatly expanded second edition of this popular and handy reference book includes over 100 new pages including extensive coverage of Section VIII of the ASME Pressure Vessel Code Divided into 22 sections this pocket sized volume is an exhaustive quick reference of up to date engineering data and rules It includes essential mathematics units engineering design processes and principles basic mechanical design motion mechanics of materials material failure thermodynamics fluid mechanics fluid equipment vessel codes and standards materials machine elements design and production tools project engineering computer aided engineering welding non destructive examination corrosion surface protection metallurgical terms and engineering associations and organizations **Official Reference**

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