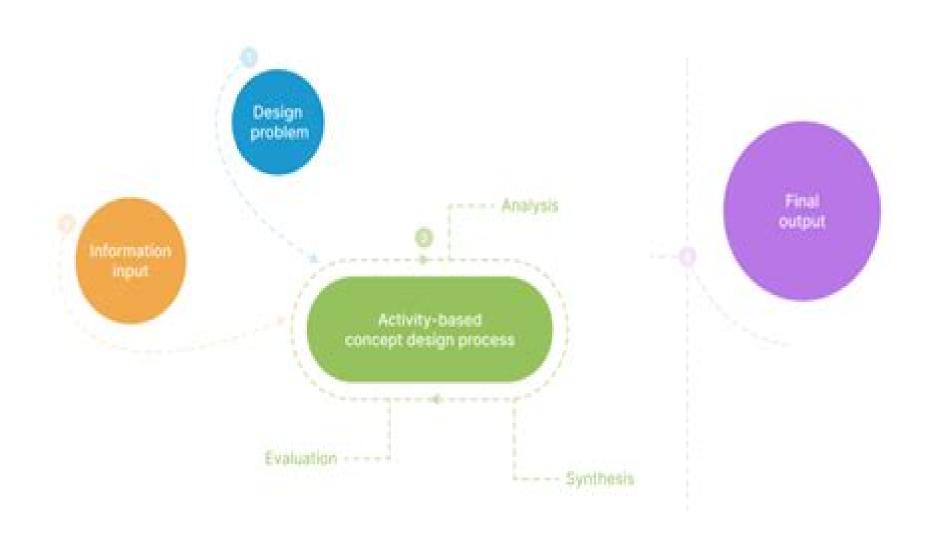
CONCEPTUAL DESIGN PROCESS



Conceptual Design For Engineers

Turkka Kalervo Keinonen,Roope Takala

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Conceptual Design for Engineers Michael J. French, 2013-03-14 3 2 Making capital and running costs commensurate 49 3 3 Optimum speed of a tanker 50 3 4 The optimisation of the sag span ratio of a suspension bridge 52 3 5 Optimisation with more than one degree of freedom heat exchanger 55 3 6 Putting a price on heat exchanger performance 57 3 7 Variation of costs with application 59 3 8 Further aspects of heat exchanger optimisation 59 3 9 An elementary programming problem 60 3 10 Classification of optimisation problems and methods of solution 62 3 11 The design of rotating discs an optimum structure 66 3 12 Hubdesign 73 3 13 Summary 73 Questions 73 Answers 74 4 Insight 4 1 Introduction 76 4 2 Rough calculations 76 4 3 Optimisation of compressor shaft diameter 83 4 4 The optimum virtual shaft a digression 85 4 5 Useful measures and concepts 87 4 6 Bounds and limits 91 4 7 Scale effects 94 4 8 Dimensional analysis and scaling 98 4 9 Proportion 99 100 4 10 Change of viewpoint Questions 102 104 Answers 5 Matching 5 1 Matching the windlass 107 5 2 An extended example of matching ship propulsion 107 5 3 Matching within a single machine III 5 4 Further aspects of ship propulsion 112 5 5 Specific speeds degrees of freedom 113 5 6 Matching of a spring to its task liS 5 7 Matching in thermodynamic processes 117 5 8 Two old cases of matching 121 5 Conceptual Design for Engineers Michael Joseph French, 2014-01-15 Conceptual Design for Engineers Michael Joseph French, 2013-04-17 Why reissue a book on engineering design first written nearly thirty years ago It was well ahead of its time in 1971 and although much of its approach is now commonplace plenty still remains to be adopted But above all where other books have a few pages on the key problems of design which are how to produce good ideas and how to develop and improve them this book has chapters Engineering science is central to most design but it figures hardly at all in other texts even though it is the principal study of engineering students In this book it assumes its proper place figuring extensively in the examples Progress in design comes usually not from brainstorming and the like but from the development of insight often rooted in science This book gives examples of insight and how to develop it In design there are recurrent forms of problem such as disposition and match ing treated here and not elsewhere Frequently insight can come and advances can be made by recognising and working on on these recurrent forms Sometimes design can be reduced to a systematic process where one idea fol lows logically from another as this book shows Sometimes too a breakthrough can come from finding a way to invalidate a step in a logical chain and so provide a starting point for a new design **Conceptual Design for Engineers** Michael Joseph French, 1998-11-01 Although first published nearly thirty years ago this book remains up to date intellectually stimulating and realistic Unlike most texts in the field it relates design closely to the science and mathematics that are students chief concern and shows their relevance It shows how to make simple but illuminating calculations and how to achieve the insight and the invention that often result from them Covering design principles in depth this is and remains an original book although some of the ideas which were novel in 1971 are now widely accepted others remain new **Conceptual Design for African Engineers**

Samuel Olu Atolagbe, Dr. Ademola Dare, 2022-12-28 Conceptual Design for African Engineers Samuel Olu Atolagbe Dr. Ademola Dare Conceptual Design for African Engineers is made for engineers in product development in order to provide intellectual quidance in developing engineering products It is especially designed to assist graduate engineers working as entrepreneurs in product development Various steps such as product need identification product specification product conceptual design selection of product ideas and prototype testing are discussed These are complemented by discussions on standardisation of products and ergonomics This work discusses these topics so a graduate engineer can be informed on what to do to develop an engineering product for the market especially in a developing country and can be used by either undergraduates or graduates The goal for this guide is to address the situation in which graduate engineers are not able to design simple machines An engineer going through this educational book thoughtfully will be able to create an engineering product that can be made and sold Innovative Conceptual Design Ehud Kroll, Sridhar S. Condoor, David G. Jansson, 2001-09-27 Conceptual design along with need identification and analysis make up the initial stage of the design process Need analysis transforms the often vague statement of a design task into a set of design requirements Conceptual design encompasses the generation of concepts and integration into system level solutions leading to a relatively detailed design This 2001 book is devoted to the crucial initial stage of engineering design In particular it focuses on parameter analysis a methodology that leads the user through the design process helping to identify critical issues parameters of the design and propose configuration specific solutions To illustrate the principles discussed the authors present numerous examples and a variety of real world case studies. The emphasis throughout is on innovation. This useful text will appeal to advanced undergraduate and graduate students as well as practising engineers architects and product development Conceptual Design of Structures Pierluigi D'Acunto, Patrick Ole Ohlbrock, Roland Pawlitschko, 2024-04-22 managers Most of the embodied energy can be saved in the load bearing structure Conceptual Design of Structures is working at the interface between structural engineering architecture and art The book seeks to answer the complex question of what needs to be considered when conceiving a building structure What influences the process of conceptual thinking How do space and structure interact In what ways do architects and engineers work together The book thus sheds light on the topic of multidisciplinary interrelationships in design showing numerous different perspectives Renowned practitioners and researchers from architecture and engineering share their insights as do artists and historians who cross the disciplinary boundaries Furthermore this book also provides an outlook on possible future developments and aspects of sustainable design and construction Bridging practice academic and research Holistic perspectives through contributors from different disciplines Numerous essays interviews and project reviews provide direct insights Selected works from engineering architecture and art Engineering Design Gerhard Pahl, W. Beitz, Jörg Feldhusen, Karl-Heinrich Grote, 2007-08-06 Engineering design must be carefully planned and systematically executed In particular engineering design methods must

integrate the many different aspects of designing and the priorities of the end user Engineering Design 3rd edition describes a systematic approach to engineering design The authors argue that such an approach applied flexibly and adapted to a particular task is essential for successful product development. The design process is first broken down into phases and then into distinct steps each with its own working methods The third edition of this internationally recognised text is enhanced with new perspectives and the latest thinking These include extended treatment of product planning new sections on organisation structures simultaneous engineering leadership and team behaviour and updated chapters on quality methods and estimating costs New examples have been added and existing ones extended with additions on design to minimise wear design for recycling mechanical connections mechatronics and adaptronics Engineering Design 3rd edition is translated and edited from the sixth German edition by Ken Wallace Professor of Engineering Design at the University of Cambridge and Luci nne Blessing Professor of Engineering Design and Methodology at the Technical University of Berlin Topics covered include fundamentals product planning and product development task clarification and conceptual design embodiment design rules principles and guidelines mechanical connections mechatronics and adaptronics size ranges and modular products quality methods and cost estimation methods. The book provides a comprehensive quide to successful product development for practising designers students and design educators Fundamentals are emphasised throughout and short term trends avoided so the approach described provides a sound basis for design courses that help students move quickly and effectively into design practice Systems Design Engineering: A Holistic Requirements-led Approach to Concept Design David Paul Genter, 2024-10-21 Many organizations are falling far short of achieving the lifecycle potential of their new product designs One major source of this suboptimal business performance stems from underleveraging key Systems Engineering and Design Engineering principles in the early phases of the design process If these are being poorly applied the following will likely occur Inefficient use of engineering and other cross functional resources Unnecessarily high product development costs Delayed time to market Subpar launch quality Poor system level safety Suboptimal lifecycle sustainability related performance Compromised design innovation This report addresses these challenges and articulates how an integrated approach of Systems Design Engineering provides nonburdensome and quickly applied methods for overcoming these shortcomings placing a dedicated focus on the three high level principles that govern lifecycle product design success Excellent and efficient performance against each of them is needed to achieve a new product s lifecycle goals Holistically understanding the needs and opportunities of a system Efficient development of system level design concepts with best in class potential System level design concept selection including effective risk mitigation Click here to access the full SAE EDGETM Research Report portfolio 9781468608878 9781468608885 https doi org 10 4271 EPR2024024 **Product Concept Design** Turkka Kalervo Keinonen, Roope Takala, 2010-05-12 Globalisation of the world's economy is leading to rapid change and uncertainties in society politics and markets Product design strategies need to respond to these developments

Product Concept Design meets the needs and expectations of academia and practitioners working in design by focussing on the methods for creating products and design strategies in today s fast changing business environment Product Concept Design has been written by a collection of researchers and practising designers from leading companies such as Nokia and Volvo and provides a goldmine of ideas for designers and managers in industry as well as lecturers in design and design engineering and their students Tools for Innovation and Conceptual Design Srinand Sreedharan Karuppoor, 2003 The ability to design is the distinguishing characteristic of an engineer Recent research has increased our understanding of both the engineering design process and effective means for teaching that process to neophyte design engineers In that spirit a design methodology was developed at the Institute for Innovation and Design in Engineering IIDE Texas A M University At the core of this approach is a design philosophy based on the cognitive skills of Abstraction Critical Parameter Identification and Questioning This philosophy along with the design process is taught in the senior undergraduate design and graduate design courses The goal of the methodology is not only to teach the design process to novice designers but also to instill in them the design philosophy that would enable them to perform design effectively and innovatively in any area of specialty In this dissertation the design philosophy along with its role in the design methodology is explained. The Need Analysis and the Conceptual Design stages of the IIDE methodology are elaborated. The weaknesses in these stages are identified and addressed by developing and incorporating design methods and techniques that fit the spirit and framework of the IIDE design methodology The Object Function Method was developed to address certain aspects at the Need Analysis stage There was need for an effective concept searching method within the Concept Design stage of the IIDE design methodology This is addressed by the development of new search techniques and methods for effective concept discovery during concept searching The usage and application of these methods and techniques is explained in detail along with examples Additionally this dissertation contains the results of a study conducted with two groups of senior design students those who have been through the process and those who have not to evaluate the effectiveness of applying the IIDE design philosophy and performing the Need Analysis and Conceptual Design stages for the given design challenge The goal of the study was to investigate the relationship if any between the degree to which these aspects of the design methodology were followed and the quality of the resulting design solutions produced Design and Engineering Rajesh Kumar R,2018-01-31 Design and Engineering subject provides an introduction to engineering profession through various philosophies existing in engineering design This is important because students can come to know about the interdisciplinary aspects of engineering problem Designing Engineers Susan McCahan, Phil Anderson, Mark Kortschot, Peter E. Weiss, Kimberly A. solving Woodhouse, 2015-01-27 Designing Engineers First Edition is written in short modules where each module is built around a specific learning outcome and is cross referenced to the other modules that should be read as pre requisites and could be read in tandem with or following that module The book begins with a brief orientation to the design process followed by

coverage of the design process in a series of short modules The rest of the book contains a set of modules organized in several major categories Communication Critical Thinking Teamwork Project Management and Design for Specific Factors e g environmental human factors intellectual property A resource section provides brief reference material on economics failure and risk probability and statistics principles problem solving and estimation Computer-Aided Design, **Engineering, and Manufacturing** Cornelius T. Leondes, 2019-04-23 In the competitive business arena companies must continually strive to create new and better products faster more efficiently and more cost effectively than their competitors to gain and keep the competitive advantage Computer aided design CAD computer aided engineering CAE and computer aided manufacturing CAM are now the industry standa Conceptual Aircraft Design Ajoy Kumar Kundu, Mark A. Price, David Riordan, 2019-04-08 Provides a Comprehensive Introduction to Aircraft Design with an Industrial Approach This book introduces readers to aircraft design placing great emphasis on industrial practice It includes worked out design examples for several different classes of aircraft including Learjet 45 Tucano Turboprop Trainer BAe Hawk and Airbus A320 It considers performance substantiation and compliance to certification requirements and market specifications of take off landing field lengths initial climb high speed cruise turning capability and payload range Military requirements are discussed covering some aspects of combat as is operating cost estimation methodology safety considerations environmental issues flight deck layout avionics and more general aircraft systems. The book also includes a chapter on electric aircraft design along with a full range of industry standard aircraft sizing analyses Split into two parts Conceptual Aircraft Design An Industrial Approach spends the first part dealing with the pre requisite information for configuring aircraft so that readers can make informed decisions when designing vessels The second part devotes itself to new aircraft concept definition It also offers additional analyses and design information e g on cost manufacture systems role of CFD etc integral to conceptual design study The book finishes with an introduction to electric aircraft and futuristic design concepts currently under study Presents an informative industrial approach to aircraft design Features design examples for aircraft such as the Learjet 45 Tucano Turboprop Trainer BAe Hawk Airbus A320 Includes a full range of industry standard aircraft sizing analyses Looks at several performance substantiation and compliance to certification requirements Discusses the military requirements covering some combat aspects Accompanied by a website hosting supporting material Conceptual Aircraft Design An Industrial Approach is an excellent resource for those designing and building modern aircraft for commercial military and **Design Engineering** W. Ernst Eder, Stanislav Hosnedl, 2007-07-09 As with any art science or discipline private use natural talent is only part of the equation Consistent success stems from honing your skills cultivating good techniques and hard work Design engineering a field often considered an intuitive process not amenable to scientific investigation is no exception Providing descriptive theory broad context **Introduction to Design Engineering** W. Ernst Eder, Stanislav Hosnedl, 2010-04-14 Designing engineering products technical systems and or transformation processes requires a range of

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Industrial Engineering: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2012-08-31 Industrial engineering affects all levels of society with innovations in manufacturing and other forms of engineering oftentimes spawning cultural or educational shifts along with new technologies Industrial Engineering Concepts Methodologies Tools and Applications serves as a vital compendium of research detailing the latest research theories and case studies on industrial engineering Bringing together contributions from authors around the world this three volume collection represents the most sophisticated research and developments from the field of industrial engineering and will prove a valuable resource for researchers academics and practitioners alike Design for Manufacturing Corrado Poli, C. Poli, 2001-08-31 CD ROM contains Power Point presentations Video clips Quicktime movies **Recent Advances in Optimal Structural Design** Scott A. Burns, 2002-01-01 Sponsored by the Technical Committee on Structural Design of the Technical Administrative Committee on Analysis and Computation of the Technical Activities Division of the Structural Engineering Institute of ASCE This report documents the dramatic new developments in the field of structural optimization over the last two decades Changes in both computational techniques and applications can be seen by developments in computational methods and solution algorithms the role of optimization during the various stages of structural design and the stochastic nature of design in relation to structural optimization Topics include methods for discrete variable structural optimization decomposition methods in structural optimization state of the art on the use of genetic algorithms in design of steel structures conceptual design optimization of engineering structures topology and geometry optimization of trusses and frames evolutionary structural optimization design and optimization of semi rigid framed structures optimized performance based design for buildings multi objective optimum design of seismic resistant structures and reliability and cost oriented optimal bridge maintenance planning The book concludes with an extensive bibliography of journal papers on structural optimization published between 1987 and 1999

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