Materials Selection in Engineering Design and Manufacturing – Concept of an Information Processing Approach

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In its essence, the materials selection process, which is a critical task in modern engineering design and manufacturing, is regarded to be an information processing routine. The engineering design process, including the selection of materials in design, is regarded to be a decision making process in which choices are made from among the available alternatives. Development and use of a materials selection process, or materials selection processes, based on the principles of decision theory and information processing is called for. The process or processes so developed should be implemented on digital computer to take advantage of the computer's immense capacity for information processing. This would comprise an important component of computer-aided engineering.

1. Introduction

All manufactured products, constructed structures, and infrastructure, everything from toys, domestic utensils, and furniture, to agricultural, commercial, and industrial machines, to roads, bridges, and dams, is made of material. Therefore, at some point in the process of engineering design, decisions have to be made as to which materials and what processes will be used in order to realize the product. The importance of materials to mankind is perhaps best underscored by the fact that epochal eras in civilization have been identified by the materials that were then in prevalent use. The bronze age, the iron age, and the stone age are examples of this practice.

The engineering profession may be defined as "the art and science of harnessing the information, materials and energy resources that occur in nature, for the benefit of mankind." Moreover, on a little reflection, it should be evident that the basic ingredients of any technology are energy, information, and materials. Materials, therefore, must be of great interest to the engineer. The engineers' interest in materials may be drawn to diverse aspects such as *The Materials Science Aspect*, and *The Materials Management Aspect*. However, to design and manufacturing engineers, it is *The Materials Selection Aspect* that should be of most interest. Until recently, this particular aspect has often not been adequately addressed in the common literature on engineering design and manufacturing.

<u>Selection Of Materials And Manufacturing Processes For Engineering Design</u>

M. N. SHETTY

Selection Of Materials And Manufacturing Processes For Engineering Design:

Selection of Materials and Manufacturing Processes for Engineering Design Mahmoud M. Farag, 1989-01-01 Materials and Process Selection for Engineering Design Mahmoud M. Farag, 2020-12-30 Introducing a new engineering product or changing an existing model involves developing designs reaching economic decisions selecting materials choosing manufacturing processes and assessing environmental impact These activities are interdependent and should not be performed in isolation from each other This is because the materials and processes used in making a product can have a major influence on its design cost and performance in service This Fourth Edition of the best selling Materials and Process Selection for Engineering Design takes all of this into account and has been comprehensively revised to reflect the many advances in the fields of materials and manufacturing including Increasing use of additive manufacturing technology especially in biomedical aerospace and automotive applications Emphasizing the environmental impact of engineering products recycling and increasing use of biodegradable polymers and composites Analyzing further into weight reduction of products through design changes as well as material and process selection especially in manufacturing products such as electric cars Discussing new methods for solving multi criteria decision making problems including multi component material selection as well as concurrent and geometry dependent selection of materials and joining technology Increasing use of MATLAB by engineering students in solving problems This textbook features the following pedagogical tools New and updated practical case studies from industry A variety of suggested topics and background information for in class group work Ideas and background information for reflection papers so readers can think critically about the material they have read give their interpretation of the issues under discussion and the lessons learned and then propose a way forward Open book exercises and questions at the end of each chapter where readers are evaluated on how they use the material rather than how well they recall it in addition to the traditional review questions Includes a solutions manual and PowerPoint lecture materials for adopting professors Aimed at students in mechanical manufacturing and materials engineering as well as professionals in these fields this book provides the practical know how in order to choose the right materials and processes for development of new or enhanced products Materials and Process Selection for Engineering Design, **Third Edition** Mahmoud M. Farag, 2013-11-19 Introducing a new engineering product or changing an existing model involves making designs reaching economic decisions selecting materials choosing manufacturing processes and assessing its environmental impact These activities are interdependent and should not be performed in isolation from each other This is because the materials and processes used in making the product can have a large influence on its design cost and performance in service Since the publication of the second edition of this book changes have occurred in the fields of materials and manufacturing Industries now place more emphasis on manufacturing products and goods locally rather than outsourcing Nanostructured and smart materials appear more frequently in products composites are used in designing

essential parts of civilian airliners and biodegradable materials are increasingly used instead of traditional plastics More emphasis is now placed on how products affect the environment and society is willing to accept more expensive but eco friendly goods In addition there has been a change in the emphasis and the way the subjects of materials and manufacturing are taught within a variety of curricula and courses in higher education This third edition of the bestselling Materials and Process Selection for Engineering Design has been comprehensively revised and reorganized to reflect these changes In addition the presentation has been enhanced and the book includes more real world case studies **Materials and Process Selection for Engineering Design** Mahmoud M. Farag, 2020-12-30 Introducing a new engineering product or changing an existing model involves developing designs reaching economic decisions selecting materials choosing manufacturing processes and assessing environmental impact These activities are interdependent and should not be performed in isolation from each other This is because the materials and processes used in making a product can have a major influence on its design cost and performance in service This Fourth Edition of the best selling Materials and Process Selection for Engineering Design takes all of this into account and has been comprehensively revised to reflect the many advances in the fields of materials and manufacturing including Increasing use of additive manufacturing technology especially in biomedical aerospace and automotive applications Emphasizing the environmental impact of engineering products recycling and increasing use of biodegradable polymers and composites Analyzing further into weight reduction of products through design changes as well as material and process selection especially in manufacturing products such as electric cars Discussing new methods for solving multi criteria decision making problems including multi component material selection as well as concurrent and geometry dependent selection of materials and joining technology Increasing use of MATLAB by engineering students in solving problems This textbook features the following pedagogical tools New and updated practical case studies from industry A variety of suggested topics and background information for in class group work Ideas and background information for reflection papers so readers can think critically about the material they have read give their interpretation of the issues under discussion and the lessons learned and then propose a way forward Open book exercises and questions at the end of each chapter where readers are evaluated on how they use the material rather than how well they recall it in addition to the traditional review questions Includes a solutions manual and PowerPoint lecture materials for adopting professors Aimed at students in mechanical manufacturing and materials engineering as well as professionals in these fields this book provides the practical know how in order to choose the right materials and processes for development of new or enhanced products MFPG, Engineering Design Mechanical Failures Prevention Group, 1977 **NBS Special** Publication ,1977 Integrated Product and Process Design and Development Edward B. Magrab, 1997-07-23 The Integrated Product and Process Design and Development IP2D2 method is guickly becoming the new standard for the rapid creation of competitively priced high quality products IP2D2 indicates in the broadest sense the overlapping interacting and

iterative nature of all of the aspects of the product realization process. The method is a continuous process whereby a product s cost performance and features value and time to market lead to a company s increased profitability and market share This new text reference reflects the sweeping changes this approach has brought to traditional engineering design courses and to industry Carefully organized with sections on each major stage of the approach Integrated Product and Process Design and Development The Product Realization Process is the first complete treatment of this new direction in engineering The book is designed to help you cultivate an attitude toward design that encourages creativity and innovation while considering the equally important considerations of customer requirements and satisfaction quality reliability manufacturing methods and material selection assembly cost the environment and scheduling Extensively class tested in senior and graduate level engineering design courses at the University of Maryland the book gives equal time to conceptual and practical aspects As each concept is introduced and explained two book long examples provide you with a realistic sense of how a product s creation progresses through its various stages Numerous checklists and other practical guidelines help you learn to apply the IP2D2 method to your own work Students and newly graduated engineers will appreciate the modern perspective that more nearly reflects what they will encounter in practice than what is obtainable in traditional texts For more experienced practicing engineers this is the new information they need to keep up with recent rapid changes and stay marketable today Materials and Process Selection for Engineering Design, Second Edition Mahmoud M. Farag, 2008 and in the future Taking a practical approach this work illustrates how design materials and process selection must mesh together and be considered along with economic and environmental analysis when developing a new product or changing an existing model It also considers the trade offs that must sometimes be made This second edition adds and revises topics such as environmental function and aesthetic considerations in design environmental impact assessment of materials and processes life cycle and recycling economics and materials substitution The book begins with an intro that reviews stages of product development This is followed by three sections covering Mechanical failures environmental degradation and materials that resist different types of failure Elements of engineering design and the effect of material properties and manufacturing processes on the design of components Economic and environmental aspects of materials and manufacturing processes as well as quantitative and computer assisted methods for screening ranking alternatives and deciding on the optimum material process combination Examples and detailed case studies illustrating practical applications as well as materials selection and substitution from a variety of industries are included Each chapter begins with clear objectives and ends with a summary review questions and bibliography Appendices supply tables of composition and properties and a glossary of technical terms SI units are used with Imperial units given when possible This student friendly text demonstrates how to balance design materials process selection and economic and environmental analysis to optimize manufacturing processes for a given component The author maintains a book website which features PowerPoint presentations for each chapter and access to a

solutions manual for qualifying instructors Professor Farag s book website **Material Selections by a Hybrid Multi-Criteria Approach** Fabrizio D'Errico, 2015-01-16 This Brief presents a new method that is based on the author and his students shared experience in applying a structured procedure that has as its main goal the creation of a material selection technique that uses language and employs a platform that is not restricted to engineers Based on a hybrid approach that exploits both traditional and semi quantitative concepts it moves forward step by step and uses a platform based on a Quality Function Deployment matrix framework Candidate materials are screened out and finally assessed by two user friendly graphic analysis tools one based on the value curve of the product and the other on an original Bubble Maps tool The Brief is written for all those whose aim is for a better understanding of how to integrate and speed up the entire product development process from the initial product concept and engineering design phases to design specs manufacturability and product marketing with optimal choice of materials Introduction to Manufacturing Processes and Materials Robert Creese, 2017-12-19 The first manufacturing book to examine time based break even analysis this landmark reference text applies cost analysis to a variety of industrial processes employing a new problem based approach to manufacturing procedures materials and management An Introduction to Manufacturing Processes and Materials integrates analysis of material costs and process costs yielding a realistic effective approach to planning and executing efficient manufacturing schemes It discusses tool engineering particularly in terms of cost for press work forming dies and casting patterns process parameters such as gating and riser design for casting feeds and more Materials Selection and Design Md Abdul Malegue, Mohd Sapuan Salit, 2013-12-11 This book presents topics on the basics of materials selection and design which will give a better understanding on the selection methods and then find suitable materials for the applications This book draws the simple and straightforward quantitative methods followed by knowledge based expert system approach with real and tangible case studies to show how undergraduate or post graduate students or engineers can apply their knowledge on materials selection and design Topics discussed in this book contain special features such as illustration tables and tutorial questions for easy understanding A few published books or documents are available hence this book will be very useful for those who use or want to use materials selection approach without the advantages of having had comprehensive knowledge or expertise in this materials world DeGarmo's Materials and Processes in Manufacturing Ernest Paul DeGarmo, J. T. Black, Ronald A. Kohser, 2011-08-30 Now in its eleventh edition DeGarmo's Materials and Processes in Manufacturing has been a market leading text on manufacturing and manufacturing processes courses for more than fifty years Authors J T Black and Ron Kohser have continued this book s long and distinguished tradition of exceedingly clear presentation and highly practical approach to materials and processes presenting mathematical models and analytical equations only when they enhance the basic understanding of the material Completely revised and updated to reflect all current practices standards and materials the eleventh edition has new coverage of additive manufacturing lean engineering and processes

related to ceramics polymers and plastics Materials and Process Selection for Engineering Design Second Editi Mahmoud M. Farag, 2007-12 This student friendly text illustrates how to balance design materials process selection and economic and environmental analysis to optimize manufacturing processes for a given component Following an overview of product design and development the book then discusses types of failure and ways to minimize it Conscious Mechanical Design Myer Kutz, 2007-03-16 The first volume of the Wiley series Environmentally Conscious Mechanical Design focuses on the foundations of environmental design both understanding it and implementing it Coverage includes the important technical and analytical techniques and best practices of designing industrial business and consumer products that are environmentally friendly and meet environmental regulations Topics covered include Optiizing Designs Design for Environment DFE practices guidelines methods and tools Life Cycle Assessment and Design Reverse Engineering ISO 14000 and Environmental Management Systems EMS standards and others **Engineering Materials and Processes** Desk Reference Michael F. Ashby, Robert W. Messler, Rajiv Asthana, Edward P. Furlani, R. E. Smallman, A.H.W. Ngan, R. J. Crawford, Nigel Mills, 2009-01-06 A one stop desk reference for engineers involved in the use of engineered materials across engineering and electronics this book will not gather dust on the shelf It brings together the essential professional reference content from leading international contributors in the field Material ranges from basic to advanced topics including materials and process selection and explanations of properties of metals ceramics plastics and composites A hard working desk reference providing all the essential material needed by engineers on a day to day basis Fundamentals key techniques engineering best practice and rules of thumb together in one quick reference sourcebook Definitive content by the leading authors in the field including Michael Ashby Robert Messler Rajiv Asthana and R J Crawford Composite Materials S. M. Sapuan, 2017-03-15 Composite Materials Concurrent Engineering Approach covers different aspects of concurrent engineering approaches in the development of composite products It is an equally valuable reference for teachers students and industry sectors including information and knowledge on concurrent engineering for composites that are gathered together in one comprehensive resource Contains information that is specially designed for concurrent engineering studies Includes new topics on conceptual design in the context of concurrent engineering for composites Presents new topics on composite materials selection in the context of concurrent engineering for composites Written by an expert in both areas concurrent engineering and composites Provides information on green composites DISLOCATIONS AND MECHANICAL BEHAVIOUR OF MATERIALS M. N. SHETTY, 2013-01-31 Primarily intended for the senior undergraduate and postgraduate students of Metallurgical and Materials Engineering Mechanical Engineering the book begins with the description of elementary mechanical testing method and then moves on to the theory of elasticity the micromechanics of high strain rate deformation phenomenon and quantitative methods of materials selection Dislocation and their applications is the strength of this book The topics such as creep fatigue and fracture are comprehensively covered The final chapter presents the

principles of materials selection The book contains numerous solved and unsolved examples to reinforce the understanding of Decision Making in the Manufacturing Environment Ravipudi Venkata Rao, 2007-06-06 Recent worldwide the subject advances in manufacturing technologies led to a metamorphism in the industry Fast changing technologies on the product front have created a need for an equally fast response from manufacturing industries who select manufacturing strategies product designs manufacturing processes and machinery and equipment Decision makers have the problem of assessing a range of options and selecting one based on conflicting criteria This book shows how graph theory and matrix approach and fuzzy multiple attribute decision making methods can be used in manufacturing Part I introduces the decision making situations in the manufacturing environment and presents decision making methods Part II uses case studies to illustrate the applications of these methods in real manufacturing situations. This book will interest designers manufacturing engineers practitioners managers institutes involved in design and manufacturing related projects researchers academics and graduates in this field Computer-Aided Materials Selection During Structural Design National Research Council, Division on Engineering and Physical Sciences, National Materials Advisory Board, Commission on Engineering and Technical Systems, Committee on Application of Expert Systems to Materials Selection During Structural Design, 1995-04-03 The selection of the proper materials for a structural component is a critical activity that is governed by many often conflicting factors Incorporating materials expert systems into CAD CAM operations could assist designers by suggesting potential manufacturing processes for particular products to facilitate concurrent engineering recommending various materials for a specific part based on a given set of characteristics or proposing possible modifications of a design if suitable materials for a particular part do not exist This book reviews the structural design process determines the elements and capabilities required for a materials selection expert system to assist design engineers and recommends the areas of expert system and materials modeling research and development required to devise a materials specific design system 5th International Conference on Digital Enterprise Technology Alain Bernard, 2010 Digital Enterprise Technology DET is more than a concept Companies arc facing new challenges in a context where the references are mostly numerical Nowadays digital methods and tools are widely generalized DET 2008 allowed excellent exchanges about the collection of systems and methods for the digital modelling and analysis of the global product development and realisation process in the context of lifecycle management This book of proceedings gives a short vices of the keynotes and proposes the text of the papers that have been presented during DET 2008 This gives a clear view of the actual state of the art and of the industrial needs This book of proceedings is organized with respect to the topics that were addressed during the conference

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