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It is a comprehensive reference on the basic concepts, methodologies, and information sources dealing with materials selection and its integration with engineering design processes. Contents include contributions from 100+ experts from industry and universities involved with design, materials selection, and manufacturing, lead by Volume Editor George E. Dieter, University of Maryland. Volume Highlights Discusses conceptual and configuration design of products and assemblies Provides specific design/materials selection situations (such as designing for fatigue resistance, fracture toughness, corrosion and wear resistance, etc.) Contains manufacturing aspects of design including effects of processing/manufacturing on materials and their influence on the design and materials selection process Addresses metals, ceramics, polymers, and composites Provides many case histories and examples Publisher: ASM International Published: 1997 Pages: 958 ISBN: 978-0-87170-386-6 Electronic Document Download Many of our products are available via Electronic Download. To access an electronic (PDF) document that has been purchased, the document will appear in Content. (You must be logged into the website in order to access your purchased content). You can also access your purchased document by searching for it and clicking on the "Download" button on the document's product detail page. 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VOLUME HIGHLIGHTS Discusses conceptual and configuration design of products and assemblies Provides specific design/materials selection situations (such as designing for fatigue resistance, fracture toughness, corrosion and wear resistance, etc.) %u2022 Contains manufacturing aspects of design including effects of processing/manufacturing on materials and their influence on the design and materials selection process %u2022 Addresses metals, ceramics, polymers, and composites %u2022 Provides many case histories and examples%u2022 Make the connection %u2022 Product engineering/design, materials selection, and manufacturing are the result of a team effort in today's manufacturing world. Find out how all the pieces fit together. %u2022 What is the role of the materials engineer in the design process? %u2022 How does the materials engineer work with and support others throughout the design process? %u2022 What is the relationship among design, materials selection, and process selection with respect to part/product function? %u2022 What is the relationship of engineering design to other departments in a manufacturing company including marketing, industrial design, and manufacturing? %u2022 How do manufacturing and assembly methods influence the properties and cost of a finished product? These are just some of the questions that are answered in Materials Selection and Design. Foreword Policy on Units of Measure Preface Authors and Contributors Reviewers Section 1 : The Design Process The Role of The Materials Engineer in Design Overview of The Design Process Conceptual and Configuration Design of Products and Assemblies Conceptual and Configuration Design of Parts Creative Concept Development Cross-Functional Design Teams Section 2 : Criteria and Concepts in Design Concurrent Engineering Designing to Codes and Standards Statistical Aspects to Design Reliability in Design Life-Cycle Engineering and Design Design for Quality Robust Design Risk and Hazard Analysis in Design Human Factors in Design Environmental Aspects of Design Safety in Design Products Liability and Design Section 3 : Design Tools Computer-Aided Design Mechanism Dynamics and Simulation Finite Element Analysis Computational Fluid Dynamics Computer-Aided Electrical/Electronic Design Design Optimization Dimensional Management and Tolerance Analysis Documenting and Communicating the Design Rapid Prototyping Section 4 : The Materials Selection Process Overview of The Materials Selection Process Techno-Economic Issues in Materials Selection Material Property Charts Performance Indices Decision Matrices in Materials Selection Relationship between Materials Selection and Processing Computer-Aided Materials Selection Value Analysis in Materials Selection and Design Use of Failure Analysis in Materials Selection Section 5 : Effects of Composition, Processing, and Structure on Materials Properties Introduction Fundamental Structure-Property Relationships in Engineering Materials Irons and Steels Nonferrous Alloys Ceramics and Glasses Engineering Plastics Composites Effects of Surface Treatment on Materials Performance Sources of Materials Properties Data and Information Section 6 : Properties versus Performance of Materials Properties Needed for the Design of Static Structures Design for Fatigue Resistance Design for Fracture Toughness Design for Corrosion Resistance Design for High-Temperature Applications Design for Oxidation Resistance Design for Wear Resistance Properties Needed for Electronic and Magnetic Applications Design with Brittle Materials Design with Plastics Design with Composites Section 7 : Manufacturing Aspects of Design Introduction to Manufacturing and Design Design for Manufacture and Assembly Manufacturing Processes and Their Selection Modeling of Manufacturing Processes Manufacturing Cost Estimating Design for Casting Design for Deformation Processes Design for Powder Metallurgy Design for Machining Design for Joining Design for Heat Treatment Design for Ceramic Processing Design for Plastic Processing Design for Composite Manufacture Control of Residual Stresses Design for Surface Finishing Glossary of Terms Metric Conversion Guide Abbreviations and Symbols Index

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