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Sixth Edition

Fundamentals of Materials Science and Engineering

SI Version

WILEY

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Science Of Eng Materials

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The Science and Design of Engineering Materials, 1999

The Science of Engineering Materials Charles O. Smith, 1977

Science of Engineering Materials Manas Chanda, 1981

Engineering Materials Science Cedric W. Richards, 1961 This book is intended to prepare the engineering student to make the most effective use of the materials at his disposal He is given a basic understanding of the makeup of real materials and the underlying theory that accounts for their behavior The various areas of engineering application of materials are explored systematically at the same time that their behavior is shown to be a logical manifestation of theory The pattern followed throughout this book is first to discuss the general then the specialized aspects of materials and their applications Preface page vii

Multi-criteria Decision Analysis for Supporting the Selection of Engineering Materials in Product Design Ali Jahan, Kevin L Edwards, Marjan Bahraminasab, 2016-02-17 Multi criteria Decision Analysis for Supporting the Selection of Engineering Materials in Product Design Second Edition provides readers with tactics they can use to optimally select materials to satisfy complex design problems when they are faced with the vast range of materials available Current approaches to materials selection range from the use of intuition and experience to more formalized computer based methods such as electronic databases with search engines to facilitate the materials selection process Recently multi criteria decision making MCDM methods have been applied to materials selection demonstrating significant capability for tackling complex design problems This book describes the rapidly growing field of MCDM and its application to materials selection It aids readers in producing successful designs by improving the decision making process This new edition updates and expands previous key topics including new chapters on materials selection in the context of design problem solving and multiple objective decision making also presenting a significant amount of additional case studies that will aid in the learning process Describes the advantages of Quality Function Deployment QFD in the materials selection process through different case studies Presents a methodology for multi objective material design optimization that employs Design of Experiments coupled with Finite Element Analysis Supplements existing quantitative methods of materials selection by allowing simultaneous consideration of design attributes component configurations and types of material Provides a case study for simultaneous materials selection and geometrical optimization processes

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