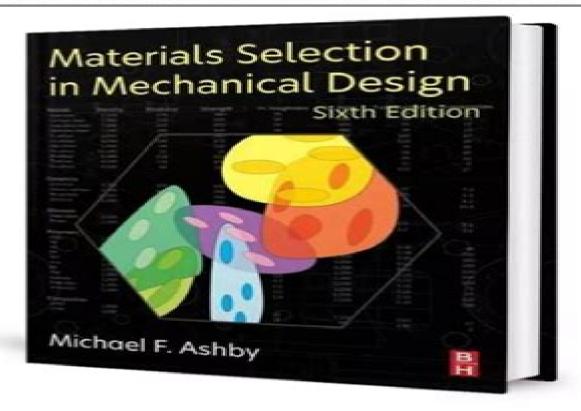
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and expanded exercises There are also new case studies showing how the methods discussed in the book can be applied to real world situations This book is intended for instructors and students of Engineering Materials Science and Industrial Product Design as well as for materials engineers and product designers who need to consider the environmental implications of materials in their designs Introduces methods and tools for thinking about and designing with materials within the context of their role in products and the environmental consequences Contains numerous case studies showing how the methods discussed in the book can be applied to real world situations Includes full color data sheets for 40 of the most widely used materials featuring such environmentally relevant information as their annual production and reserves embodied energy and process energies carbon footprints and recycling data New to this edition New chapter of Case Studies of Eco audits illustrating the rapid audit method New chapter on Materials for Low Carbon Power examines the consequences for materials supply of a major shift from fossil fuel based power to power from renewables New chapter exploring Material Efficiency or design and management for manufacture to provide the services we need with the least production of materials Recent news clips from the world press that help place materials issues into a broader context are incorporated into all chapters End of chapter exercises have been greatly expanded The datasheets of Chapter 15 have been updated and expanded to include natural and man made fibers Materials and Sustainable Development Michael F. Ashby, 2022-06-26 Materials and Sustainable Development Second Edition written by noted materials selection authority Mike Ashby provides a structure and framework for analyzing sustainable development and the role of materials in it The book s aim is to introduce ways of exploring sustainable development to readers in a way that avoids simplistic interpretations and approaches complexity in a systematic way There is no completely right answer to questions of sustainable development instead there is a thoughtful well researched response that recognizes concerns of stakeholders conflicting priorities and the economic legal and social aspects of the technology and its environmental legacy The intent of the book is not to offer solutions to sustainability challenges but rather to improve the quality of discussion and enable informed balanced debate This updated edition has been updated to reflect new insights regulatory trends and other developments that have occurred since publication of the previous edition Describes sustainable development in increasingly detailed progression from a broad overview to specific tools and methods Includes updated chapter length case studies on topics such as biopolymers electric cars bamboo and lighting that vividly illustrate the sustainable development process from a materials perspective Covers business and economic aspects in chapters on corporate sustainability and the circular materials economy **Syllabus Series** University of California (System),1925 Engineering Materials 2 David R.H. Jones, Michael F. Ashby, 2012-11-09 Engineering Materials 2 Fourth Edition is one of the leading self contained texts for more advanced students of materials science and mechanical engineering It provides a concise introduction to the microstructures and processing of materials and shows how these are related to the properties required in engineering design Each chapter

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