



Materials Selection in Mechanical Design

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Condition: New. Publisher/Verlag: Springer Spektrum | Das Original mit Übersetzungshilfen. Easy-Reading-Ausgabe zur 3. Edition. Unique material selection charts available to download online | Key Features include:- Fully revised throughout, with new material on topics including process selection, material and shape selection, design of hybrid materials, environmental factors and industrial design- Reader-friendly approach and attractive, easy to use two-colour presentation- Improved tutor resources with supporting online materials and Instructor's Manual- Unique material selection charts available to download online- The methods developed in the book are implemented in Granta Design's widely used CES Educational software Revised and expanded for this edition, Materials Selection in Mechanical Design is recognised as a key text for materials properties courses internationally, and provides a unique and genuinely innovative resource for students and practicing engineers. | 1 Introduction 1.1 Introduction and synopsis 1.2 Materials in design 1.3 The evolution of engineering materials 1.4 Case study: the evolution of materials in vacuum cleaners 1.5 Summary and conclusions 1.6 Further reading 2 The design process 2.1 Introduction and synopsis 2.2 The design process 2.3 Types of design 2.4 Design tools and materials data 2.5 Function, material, shape, and process 2.6 Case study: devices to open corked bottles 2.7 Summary and conclusions 2.8 Further reading 3 Engineering materials and their properties 3.1 Introduction and synopsis 3.2 The families of...



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