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variables Figure 2. The Design Table 1 In summary, students

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General steps in materials selection 1. Analysis of the performance requirements. 2. Development of alternative solutions to the problem. 3. Evaluation of the different solutions. 4. Decision on the optimum solution. Materials and Process Selection for Engineering Design: Mahmoud Farag 4

MATERIALS SELECTION IN MECHANICAL DESIGN

If the CES EDU Materials Selection software is available the same exercises can be solved by its use. This involves first creating the chart, then applying the appropriate box or line selection. The results, at Level 1 or 2, are the same as those read from the hard copy charts (which were made using the Level 2 database).

GRANTA Selector Capabilities | Ansys

Plot, visualize and explore materials performance against the full range of properties. Identify the best options, then annotate and customize plots or produce clear, complete selection reports to communicate your findings. Highlight reference materials or your company's preferred materials to ease comparison and help find alternative materials.

Exercises - University of Thessaly

Materials are introduced through their properties; materials selection charts (also available on line) capture the important features of all materials, allowing rapid retrieval of information and application of selection techniques. Merit indices, combined with charts, allow optimization of the materials selection process.

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presents the property data as material selection charts.

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