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Materials Selection in Mechanical Design | ScienceDirect

Michael Ashby is the creator of the famed Ashby charts (materials selection charts) which make narrowing down materials choices for nearly any application far easier; this book has a wealth of these charts and all of the information necessary to use and understand them.

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Materials Selection in Mechanical Design, Fifth Edition, winner of a 2018 Textbook Excellence Award (Texty), describes the procedures for material selection in mechanical design in order to ensure that the most suitable materials for a given application are identified from the full range of materials and section shapes available.

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Materials Selection in Mechanical Design. Understanding materials, their properties and behavior is fundamental to engineering design, and a key application of materials science. Written for all students of engineering, materials science and design, this book describes the procedures for material selection in mechanical design in order to ensure that the most suitable materials for a given application are identified from the full range of materials available.Key Features include:"Fully ...

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Materials are an integral part of mechanical design and engineering. Understanding of properties, how they matter for product performance are a key knowledge set for any engineer designing products big or small. This course attempts to provide insights into the following topics Role of material selection in Design process

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CONCLUSIONS A novel materials selection procedure has been implemented in software. It contains a database of quantitative and qualitative data for a wide range of engineering materials: metals, polymers, ceramics, composites and natural materials.

MATERIALS SELECTION IN MECHANICAL DESIGN

M.F. Ashby, Materials Selection in Mechanical Design, 3rd Ed., Elsevier, 2005. Massachusetts Institute of Technology Cambridge, Massachusetts Materials Systems Laboratory ©Jeremy Gregory and Randolph Kirchain, 2005 Materials Selection 1 – Slide 7 First Step: Translation

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Note: The materials selection charts shown in some of the notes and in the video (from the Ashby and Jones book) are courtesy of Michael Ashby. ... Ashby, M. F. Materials Selection in Mechanical Design. Boston, MA: Elsevier, 2005. ISBN: 0750661682. (Relevant topics: Materials Selection and Design) ...