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Materials are an integral part of mechanical design and engineering.

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MATERIALS SELECTION IN MECHANICAL DESIGN M.F. Ashby and D. Cebon  
Engineering Department, Trumpington Street, Cambridge CB2 1PZ, UK ABSTRACT  
A novel materials-selection procedure has been developed and implemented in software. The procedure makes use of Materials Selection Charts: a new way of displaying material property

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Material selection is one of the foremost functions of effective engineering design as it determines the reliability of the design in terms of industrial and economical aspects. A great design may fail to be a profitable product if unable to find the most appropriate material combinations. So it is vital to know what the best materials for a particular design are.

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Preference : Materials influenced lives in Epictetus' time and continue to do so today. In his day, the number of materials was small; today it is vast.

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It provide a deeper and broader appreciation of methods for selecting materials as part of mechanical design. Materials property charts are used throughout as a

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means to rapid appropriation of solutions from a wide range of engineering materials. The module includes the selection of materials processes in addition to selection of materials.

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