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Michael F. Ashby. Michael Farries Ashby CBE, FRS, FEng (born 20 November 1935) is a British metallurgical engineer. He is a Royal Society Research Professor, and a Principal Investigator at the Engineering Design Centre at Cambridge University. He is known for his contributions in Materials Science in the field of material selection.

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- Aim to provide coherent overview of material selection – Materials (and structural configurations and processes) should be selected for applications based on measurable criteria • Ashby and Jones, Engineering Materials I, Chapter 6. Materials for Mechanical Elements

Materials Selection - MIT OpenCourseWare

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An Ashby plot, named for Michael Ashby of Cambridge University, is a scatter plot which displays two or more properties of many materials or classes of materials. These plots are useful to compare the ratio between different properties. For the example of the stiff/light part discussed above would have Young's modulus on one axis and density on the other axis, with one data point on the graph ...

Material selection - Wikipedia

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Having specified the material requirements, the rest of the selection process involves the search for the material that would best meet those requirements. The starting point is the entire range of engineering materials. At this stage, it is essential to open up channels in different directions. A steel may be the best material for one design

Chapter 9 THE MATERIALS SELECTION PROCESS

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Professor Ashby was the Editor of Acta Metallurgica from 1974 to 1995 and is now Editor of Progress in Materials Science. Selected Publications Ashby, M.F. and Johnson, K. Materials and Design, the Art and Science of Materials Selection in Product Design Butterworth Heinemann, Oxford, 2002 ISBN 0-7506-5554-2

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