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Definition. In mechanics of materials, the strength of a material is its ability to withstand an applied load without failure or plastic deformation. The field of strength of materials deals with forces and deformations that result from their acting on a material.

### **Strength of materials - Wikipedia**

Statics is the branch of mechanics that is concerned with the analysis of loads (force and torque, or "moment") acting on physical systems that do not experience an acceleration ( $a=0$ ), but rather, are in static equilibrium with their environment.

### **Statics - Wikipedia**

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SOIL MECHANICS Arnold Verruijt Delft University of Technology, 2001 This is the screenbook version of the book on SOIL MECHANICS, used at the Delft University of Technology.

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