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in engineering applications. One aspect of the subject is the physical testing of samples of materials by applying forces and deformations.

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In engineering, deformation refers to the

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change in size or shape of an object.

Displacements are the absolute change in position of a point on the object. Deflection is the relative change in external displacements on an object. Strain is the relative internal change in shape of an infinitesimally small cube of material and can be expressed as a non-dimensional

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change in length or angle of ...

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Deformation (engineering) - Wikipedia
Arising from the manufacturing process,
interior and surface flaws are found in all
metal structures. Not all such flaws are
unstable under service conditions. Fracture
mechanics is the analysis of flaws to

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discover those that are safe (that is, do not grow) and those that are liable to propagate as cracks and so cause failure of the flawed structure.

Fracture mechanics - Wikipedia

This is a very good text for an undergraduate mechanics of materials

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