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Deformation And Fracture Mechanics Of Engineering

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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

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service conditions. Fracture mechanics is the analysis of flaws to 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 class. Graduate students will probably want a book with a little more detail, like Deformation and Fracture Mechanics of Engineering Materials by Richard W. Hertzberg.

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