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12.001 Introduction to Geology
Spring 2008

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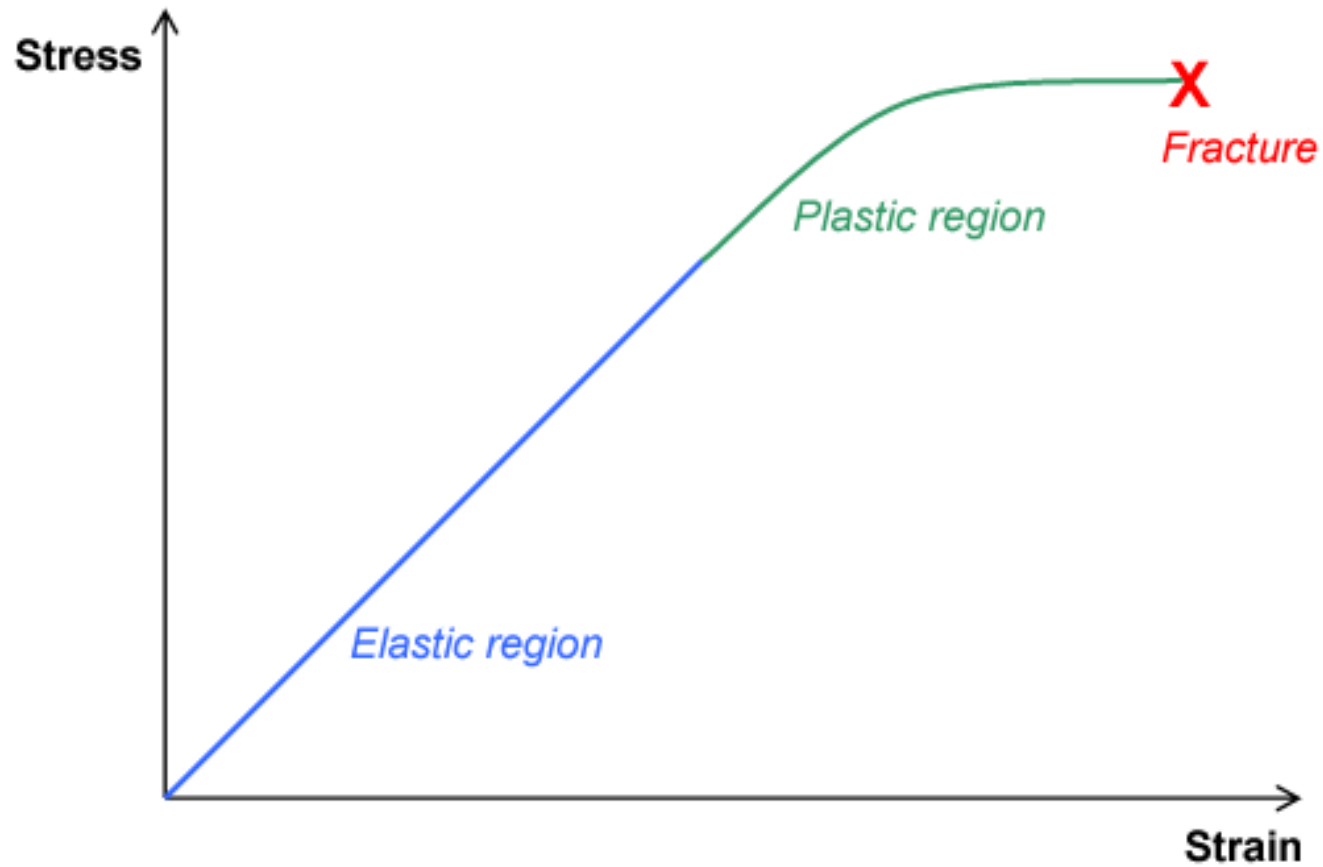
Strike and Dip on a Rooftop

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Strike and Dip in a Rock Structure

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A ductile material



Strength

- **ability of an object to resist deformation**
- **compressive or tensile**

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Fig. Story 11.6

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Boudinage from stretching

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Folds in the Moine, Arisaig, Scotland



Elkins-Tanton



Fig. Story 11.16

Fig. Story 11.16a

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Fig. Story 11.16b

Fig. Story 11.16c

Fig. Story 11.16d

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Fig. Story 11.16e



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Image courtesy of USGS, Marli Miller.

Rift Valley

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The broader context of faulting

Brittle

*Fault plane;
episodic rupture*

Ca. 10-30 km deep

Ductile

*Broad zone;
continuous plastic shear*

