

Geology 100

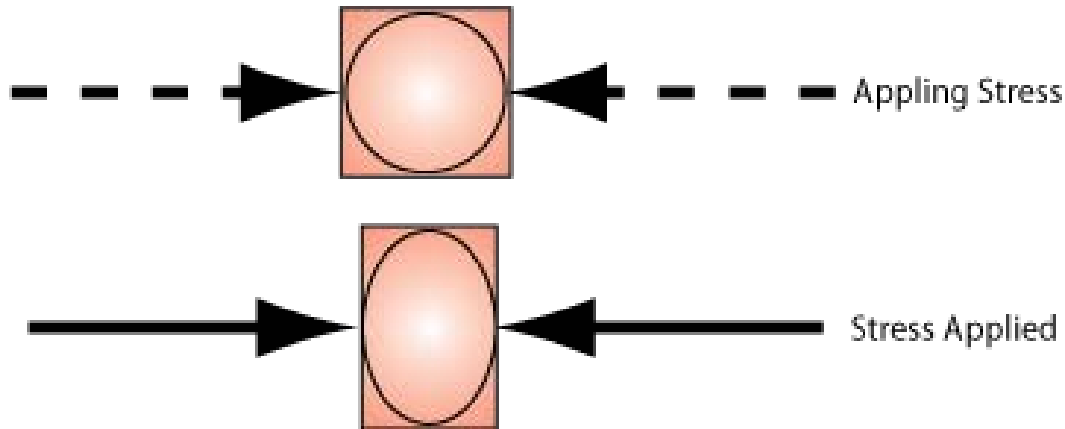
Notes on Planet Earth version 3.0

Review - Exam 4

Chapter 11

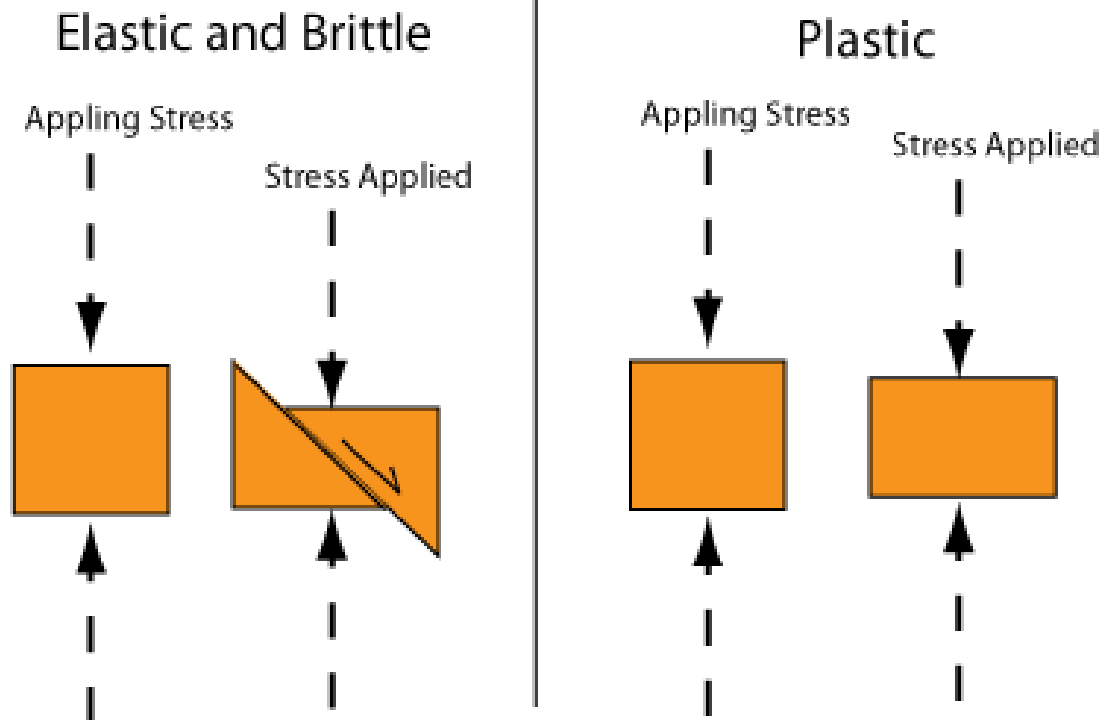
Stress a rock to obtain a strain

- Stress – Force/Area – the intensity of the applied force
- Strain – a distortion or change in shape



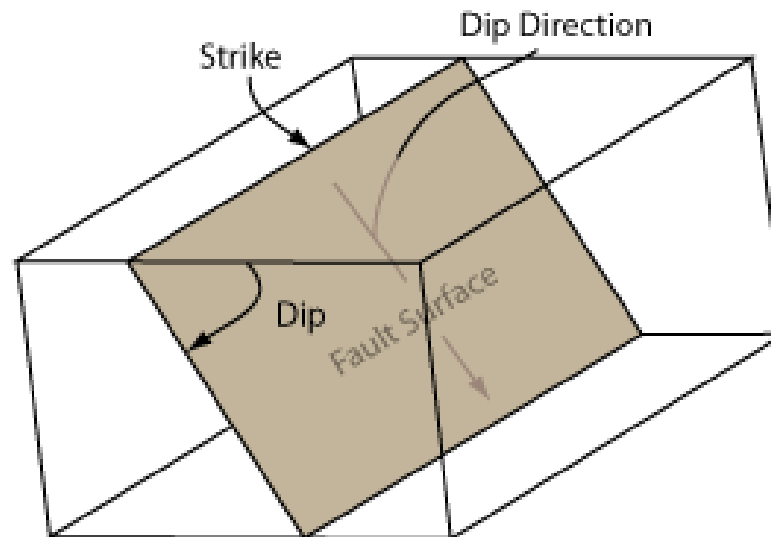
Material Responses

- Elastic – brittle
- Plastic



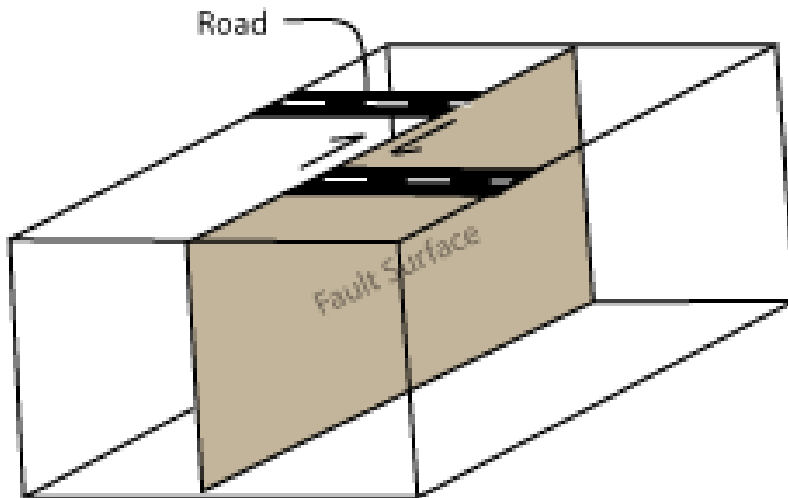
Definition of a Fault

- Faults are surfaces across which Earth materials have lost cohesion and across which there is perceptible displacement.

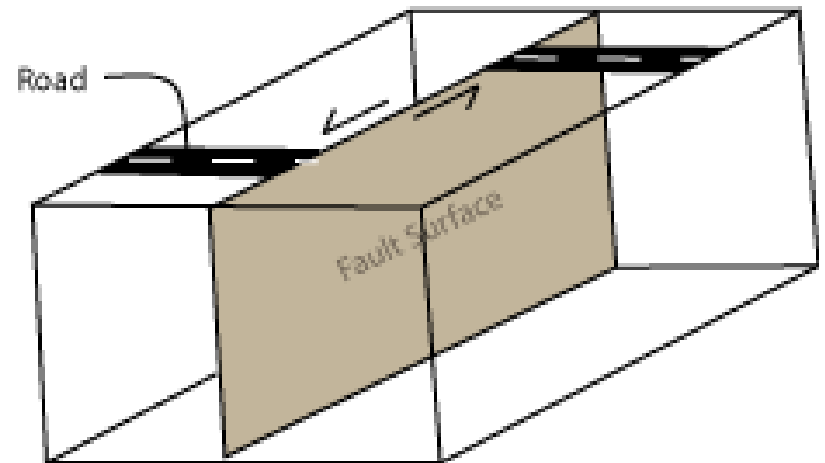


Strike-slip Faults

- Right-lateral
- Left-lateral



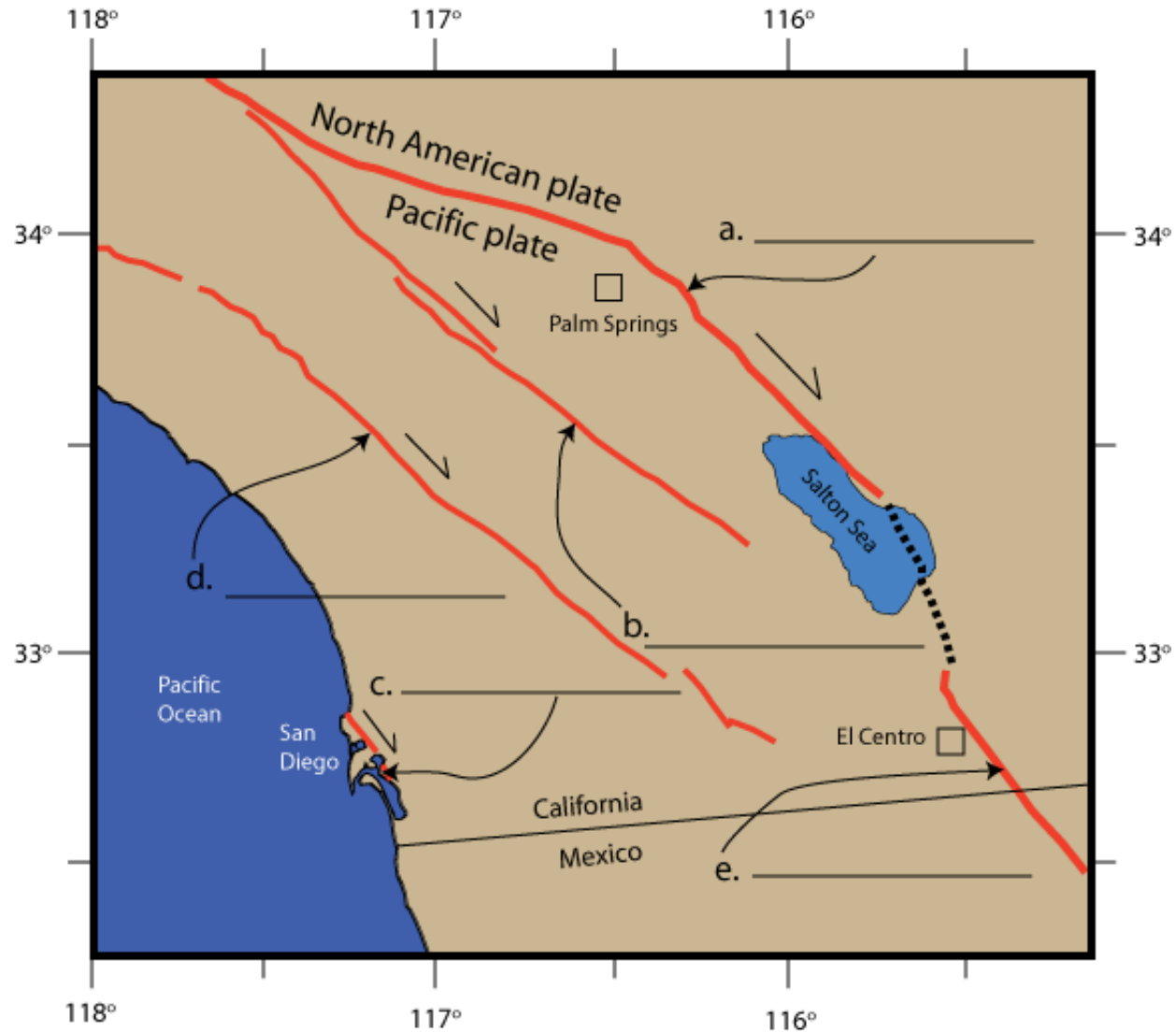
Right-lateral strike-slip fault



Left-lateral strike-slip fault

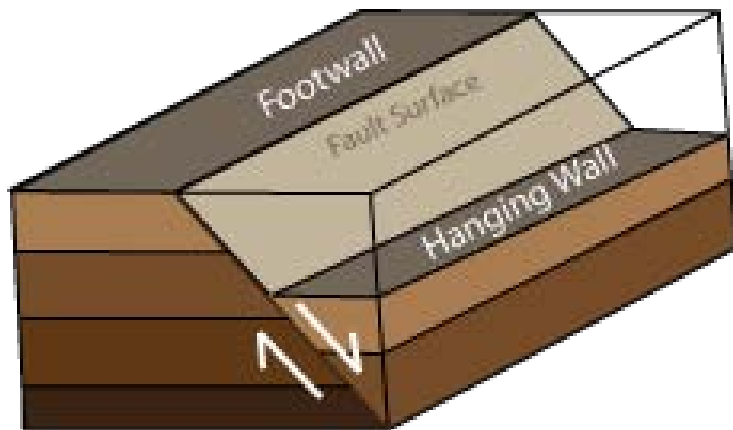
Strike-slip faults in California

San Andreas fault
San Jacinto fault
Elsinore fault
Imperial fault
Rose Canyon fault

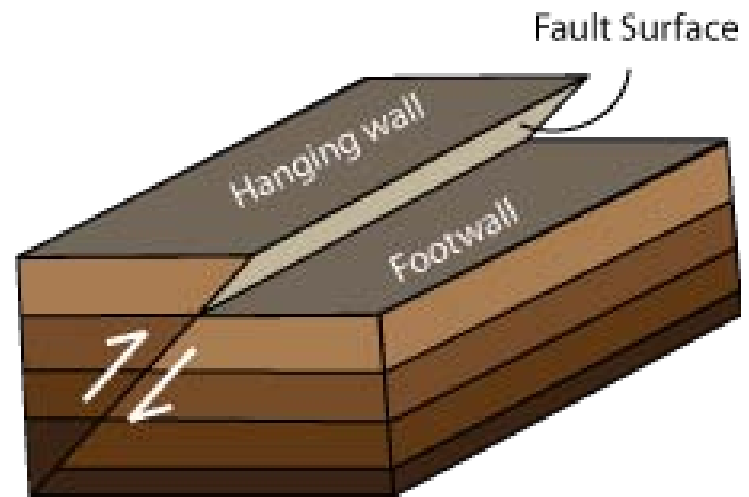


Dip-slip Faults

- Normal
- Reverse (or thrust)



Normal fault



Reverse fault

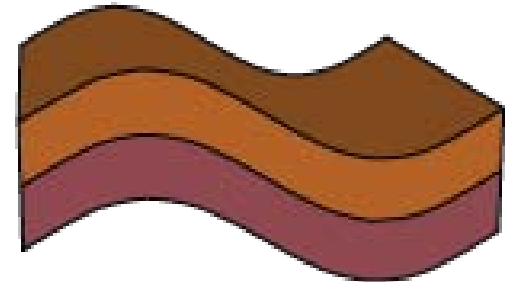
Definition of a Fold

- Anticline
- Syncline

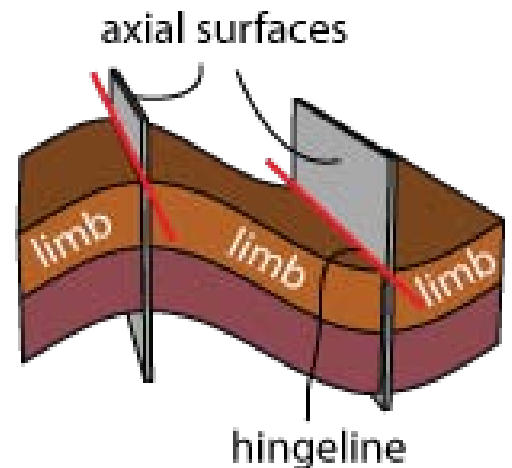
Unfolded layers



Folded layers



Axial Surfaces
and hingelines



Overturned beds

This limb has not been rotated through 90°. It is considered to be upright.

