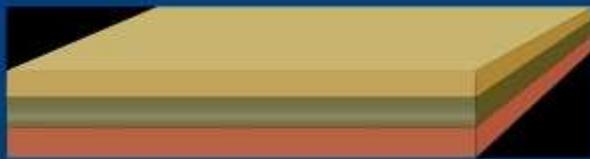


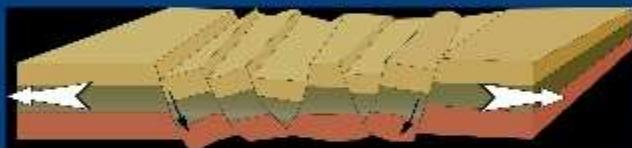
STRESS and STRAIN
In
GEOLOGICAL
ENGINEERING

Deforming Earth's Crust

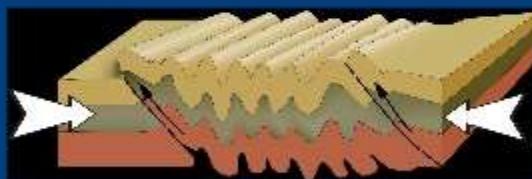
Types of stress: Extension, Compression, Shear



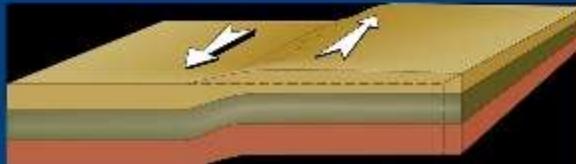
Undeformed beds: no stress applied.



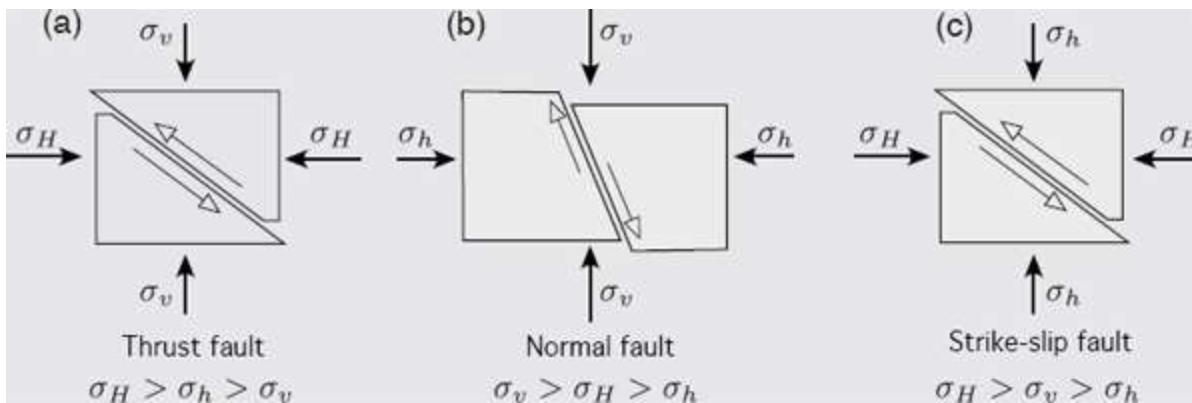
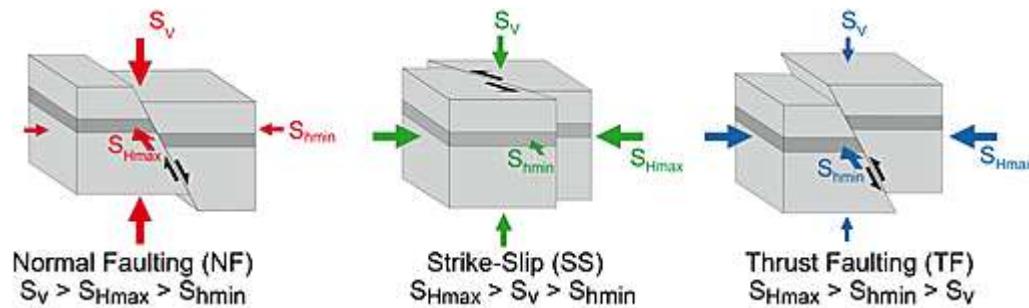
Extension makes faults and regional thinning. (Ex., Basin & Range.)



Compression makes faults and folds.
(Ex., Rocky Mountains.)



Shearing displaces layers horizontally
and can result in strike-slip faulting.
(Ex., San Andreas Fault, California.)



<https://www.nap.edu/read/13355/chapter/5>





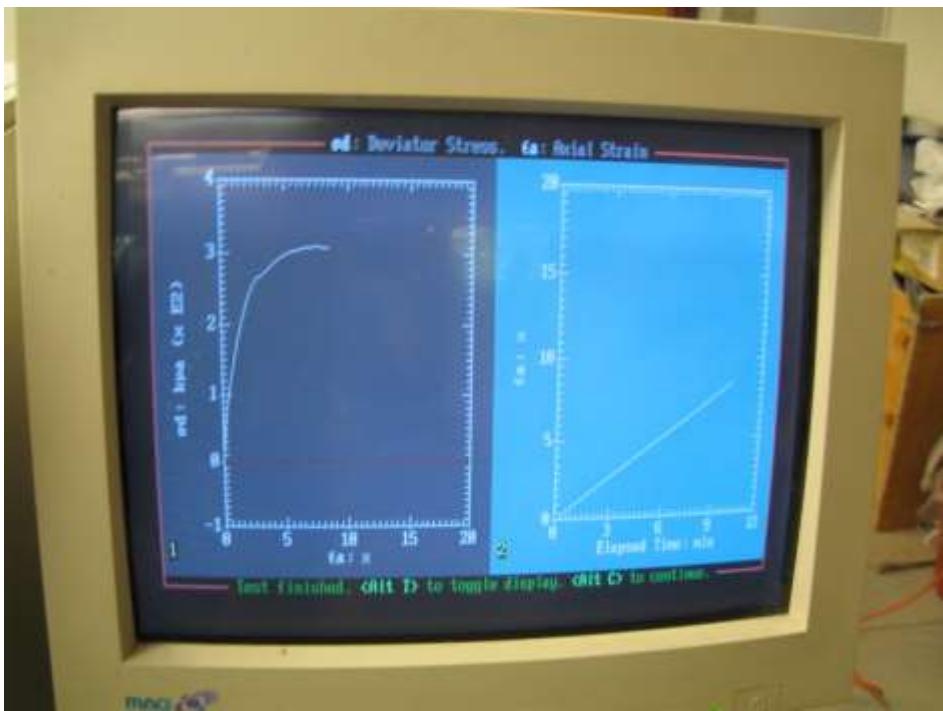




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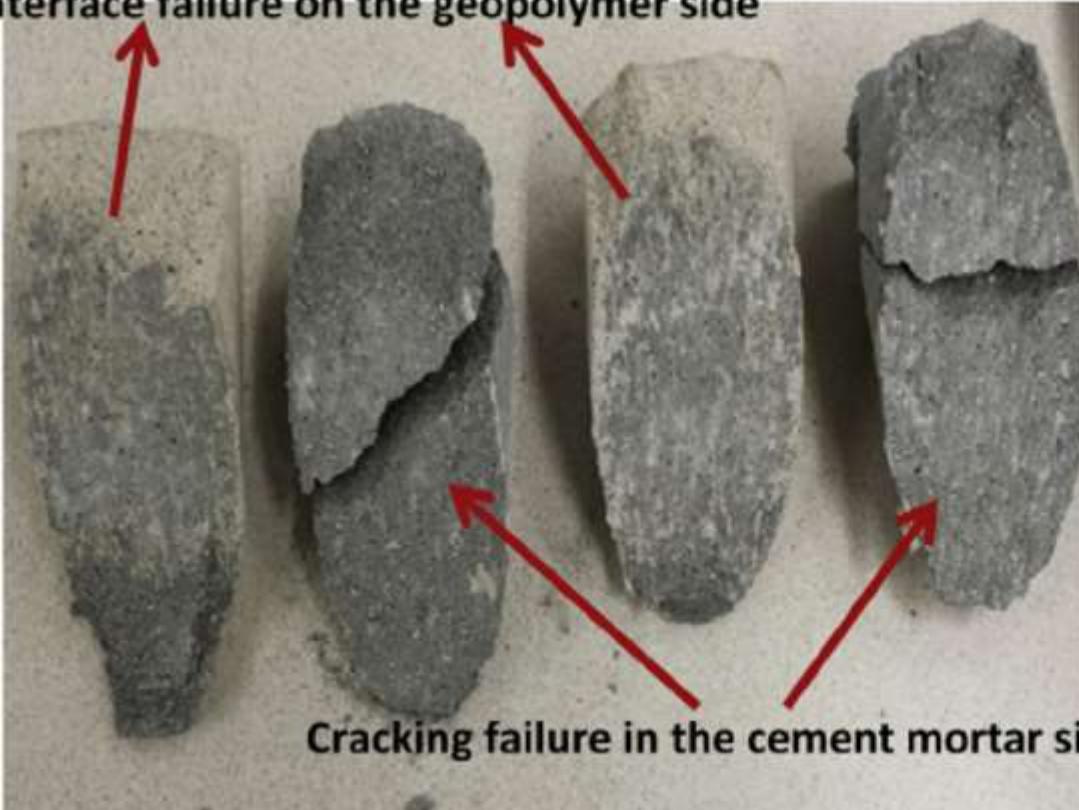








Interface failure on the geopolymerside



Cement mortar side

Geopolymer side



