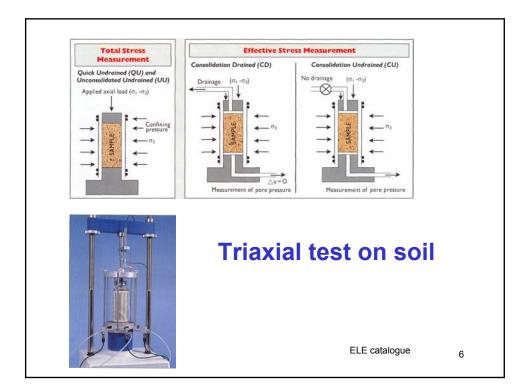
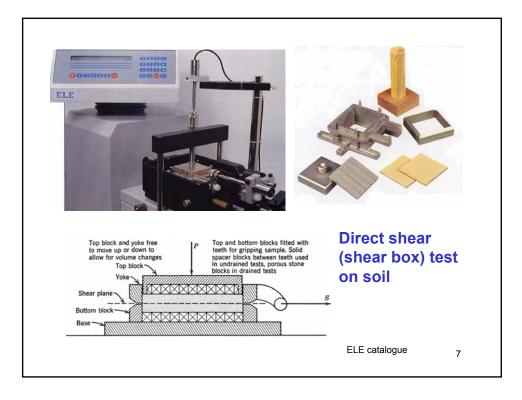
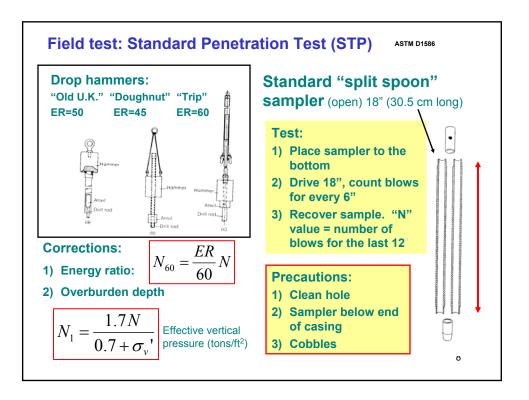


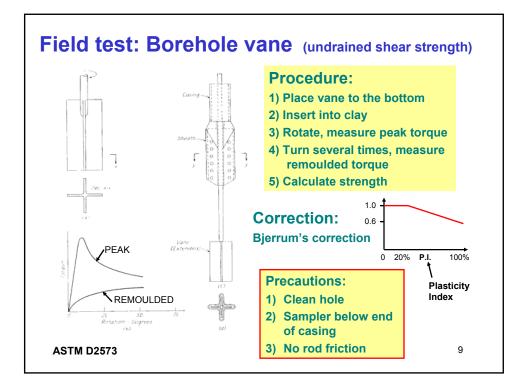


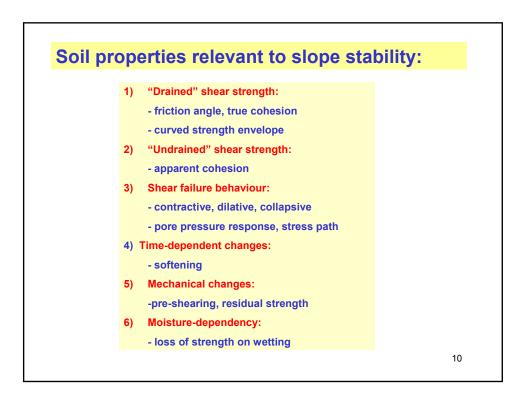
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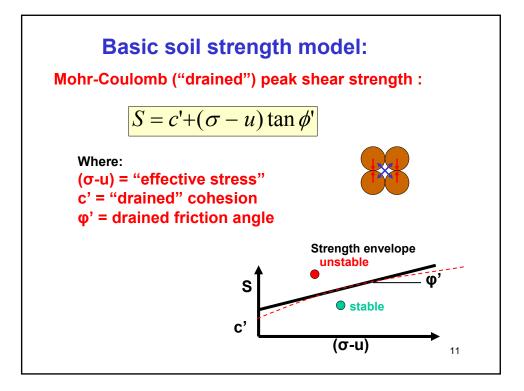


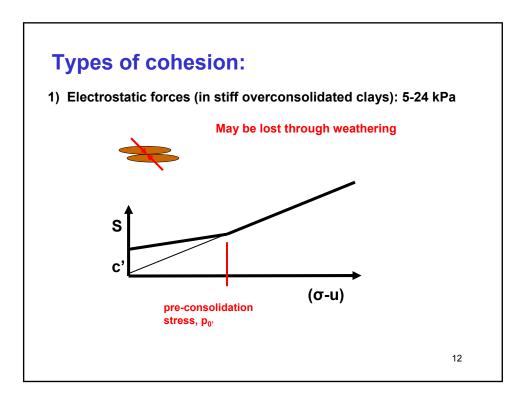


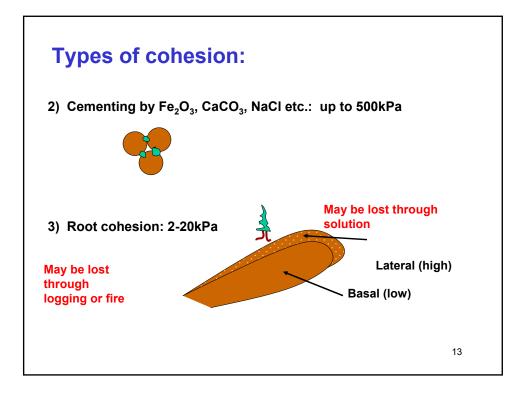


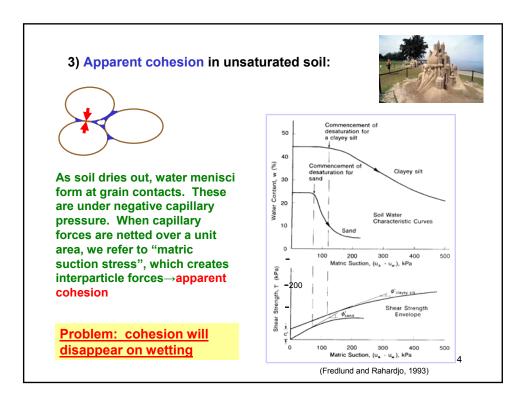


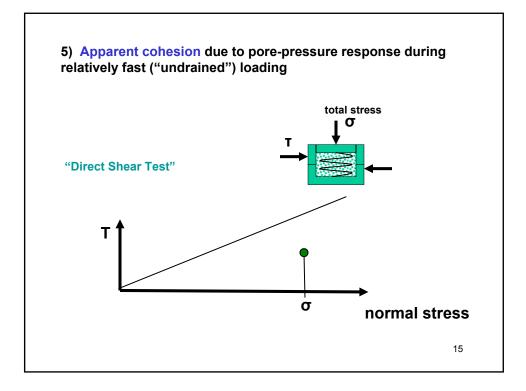


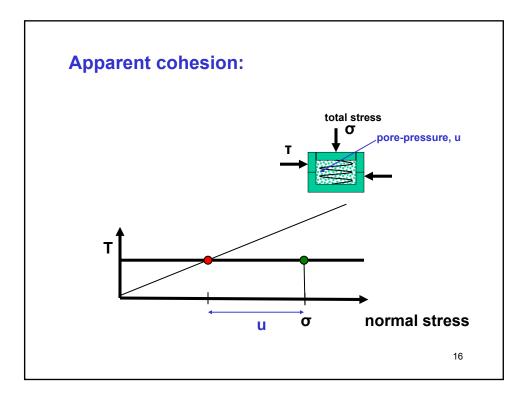


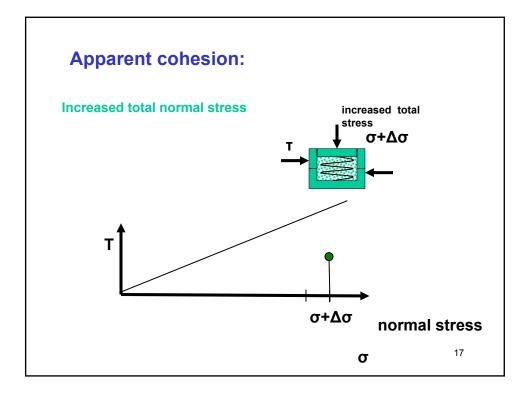


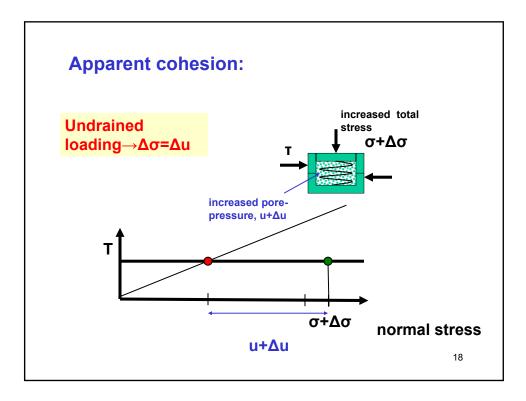


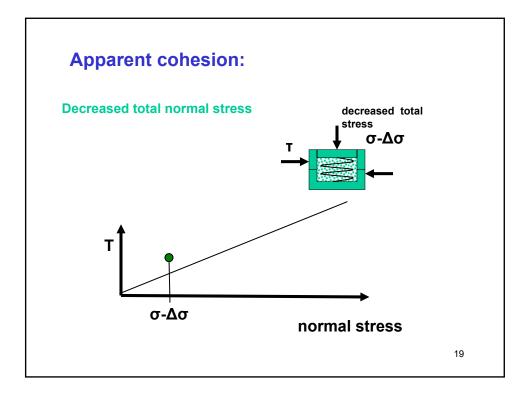


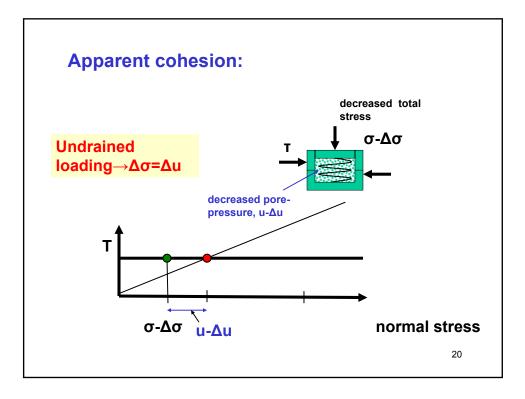


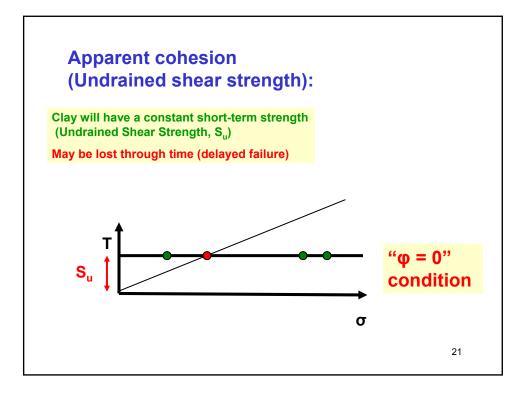


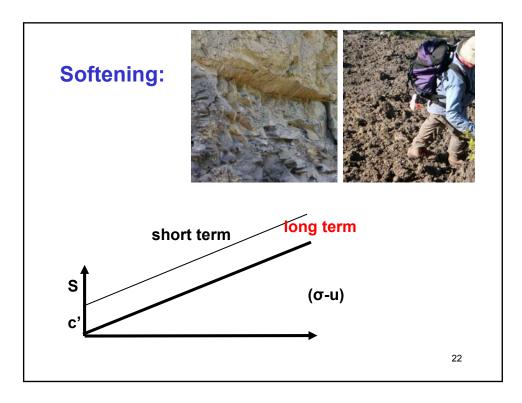


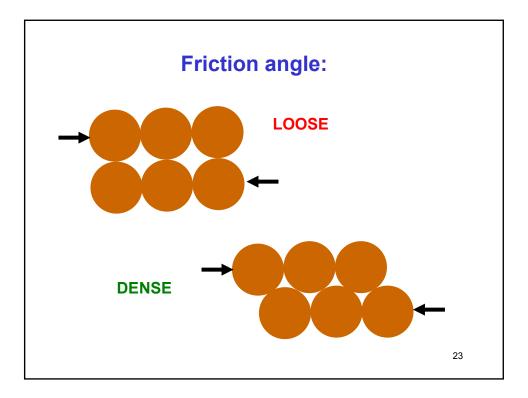


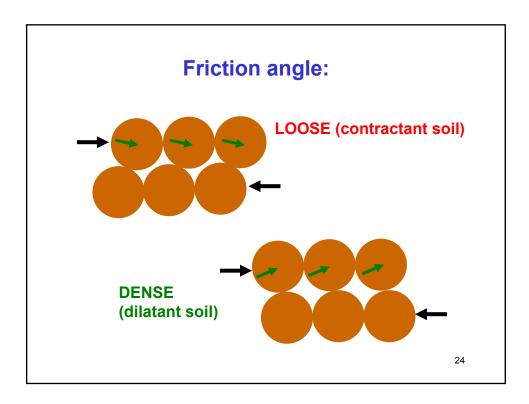


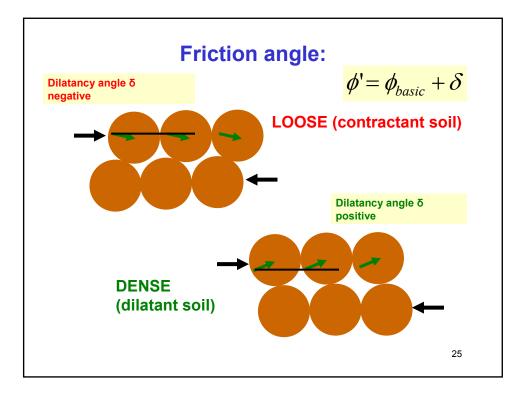


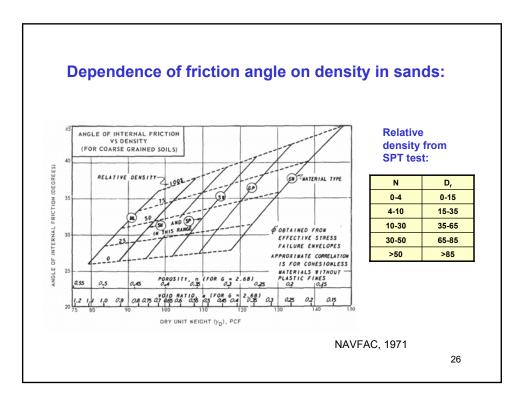


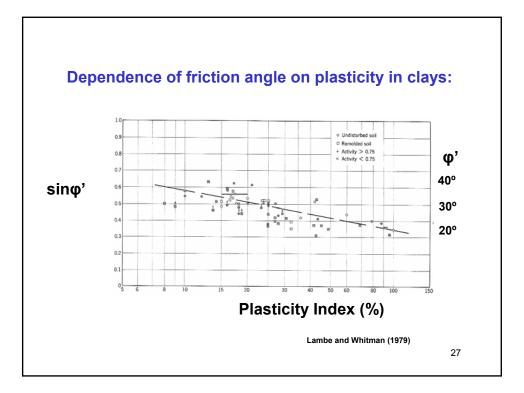


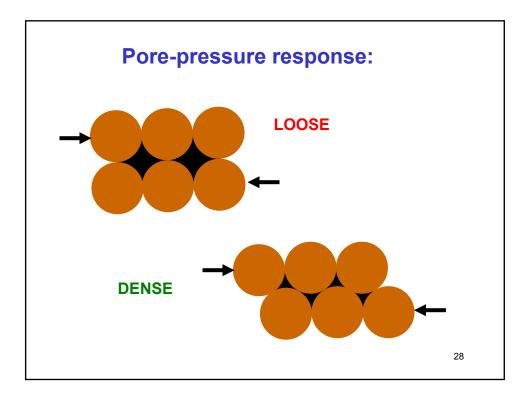


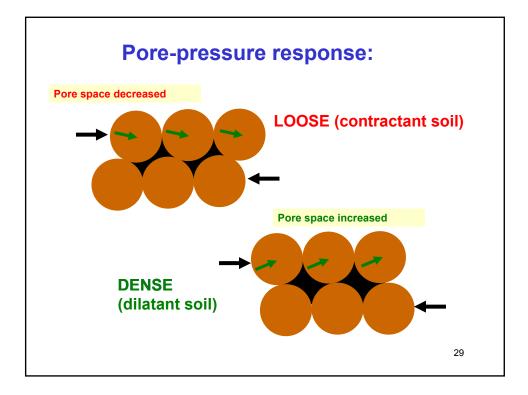


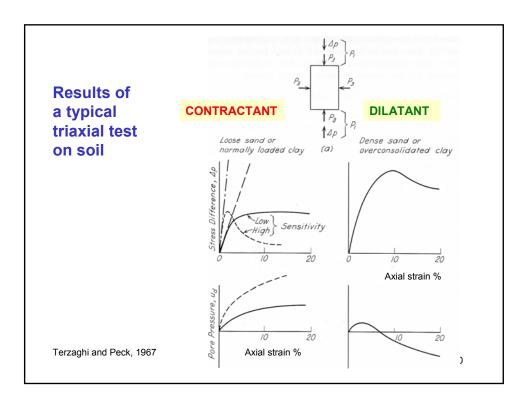


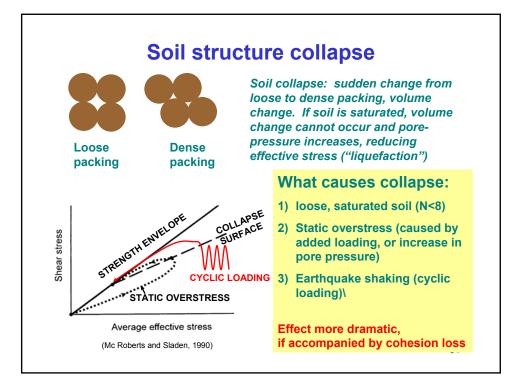






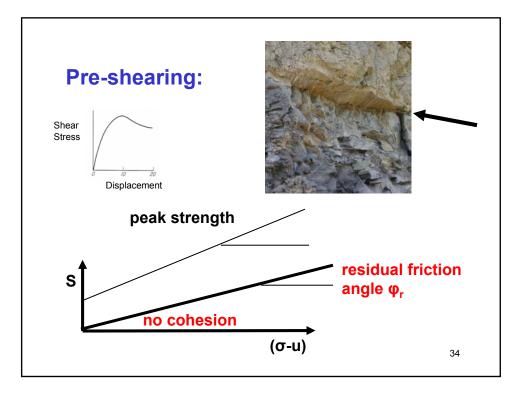


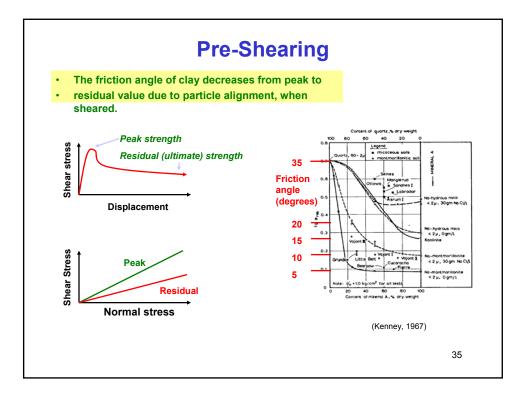






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Loss of soil strength, summary

a) Long-term strength loss, leading to delayed failure:

Process:	Time frame	Materials
Increase of pore-pressure through drainage	Weeks to years	clay, silt
Softening of fissured clay, loss of cohesion	Decades	Stiff, fissured clay
Reduction in friction angle through shearing (progressive failure)	Variable	Stiff clays

b) Sudden strength loss, leading to extremely rapid failure

Process:	Materials	
Sudden remoulding	Extra-sensitive (quick) clay	
Static or earthquake liquefaction	Loose, saturated sand, silt	
Loss of apparent cohesion on wetting	Unsaturated silt	
Loss of true cohesion due to overstress	Weakly cemented sand, silt	

