Strain rate hardening: The 60 faster the loading, the Strain rate =  $10^{-5}/s$ stiffer the material Strain rate =  $10^{-6}/s$ 50 Strain rate =  $10^{-7}/s$ Deviatoric stress  $\sigma_1$ - $\sigma_3$  (MPa) 40 Fast  $\sigma_3 = 50 MPa$ 30 Slow  $\sigma_3 = 15 MPa$ 20 10 [Zoback 2013 - Fig.3.11] 0.016 0.032 0.048 0.064

Axial strain (in/in)