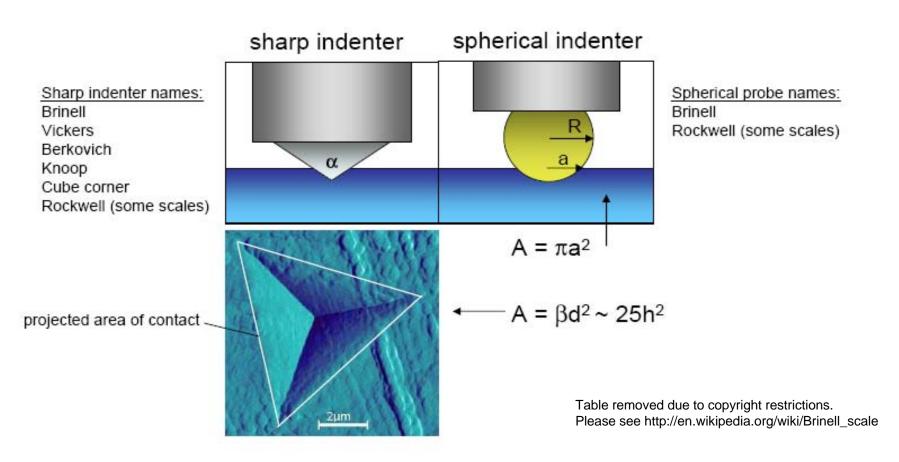
3.032 Mechanical Behavior of Materials

Fall 2007

Hardness testing: Estimates of yield strength

Hardness = H = Load/Area = P / A_{c, projected}



Lecture 24 (11.05.07)

3.032 Mechanical Behavior of Materials

Fall 2007

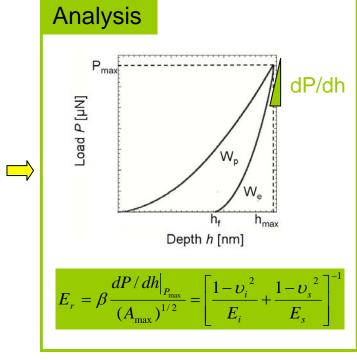
Instrumented Indentation: Estimates of elastic modulus and yield strength

Images removed due to copyright restrictions.

Please see

Fig. 1 in Juliano, T. F., et al. "Multiscale Creep Compliance of Epoxy Networks at Elevated Temperatures." Experimental Mechanics 47 (2007): 99-105.

Fig. 1b in Tweedie, Catherine A., and Van Vliet, Krystyn J. "On the indentation recovery and fleeting hardness of polymers." Journal of Materials Research 21 (December 2006): 3029-3036.



Lecture 24 (11.05.07)