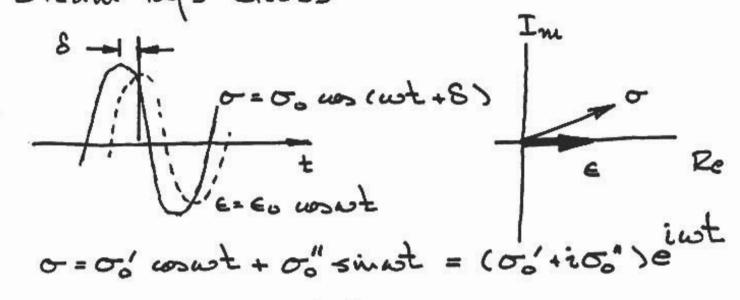
Dynamic Loading Strain logs stress



· Envergy storage and loss

= 0 + 110, 60

· Complex modulus

$$E^* = E' + i E' = \frac{\sigma_0}{\epsilon_0} + i \frac{\sigma_0''}{\epsilon_0}$$

$$= \frac{\sigma_0^*}{\epsilon_0^*}$$

See Figure 12.1, "Temperature dependence of mechanical loss tangent for nylon," in McCrum, N.G. *Anelastic and Dielectric Effects in Polymeric Solids.* Mineola NY: Dover, 1991.

