• Equations 2.8 and 2.9 can be expressed as

\[
\sigma = K \dot{\varepsilon}^m
\]  

(2.10)

\[
\frac{d\sigma}{d\varepsilon} = K' \dot{\varepsilon}^s
\]  

(2.11)

• It is possible to determine \( m \) from tensile tests by changing the strain rate suddenly and by measuring the instantaneous change in stress. This technique is illustrated in Fig. 2.5.
Figure 2-5. Strain-rate changes during tensile test. Four strain rates are shown: $10^{-1}$, $10^{-2}$, $10^{-3}$, and $10^{-4}s^{-1}$. 