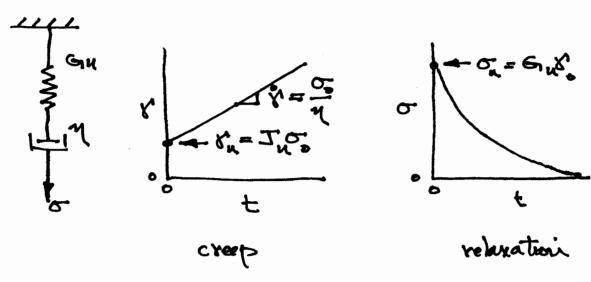
Spring - Doshpot Models Hookean spring Newstonian dashpot 1-1 0= NX

Maxwell Model



Series connection:
$$\sigma_s = \sigma_s = \sigma$$
, $\delta = V_s + \delta_s$

$$\delta' = \delta'_s + \delta'_d = \frac{1}{6u} \sigma + \frac{1}{4} \sigma$$

$$Gu \delta' = \sigma + \frac{1}{4} \sigma$$

$$(\tau = \pi/6u)$$

Relaxation
$$v=v_0$$
, $v=0$

$$0=\delta+\frac{1}{C_0}\sigma-\frac{d\sigma}{dt}=-\frac{1}{C_0}\sigma$$

$$\frac{d\sigma}{\sigma}=-\frac{1}{C_0}dt-\frac{t}{C_0}\sigma$$

(et=to, Grol= = = = = = Gu)

anation:
$$Y(t) = Y_0 u(t) - \overline{X} = \frac{Y_0}{5}$$

	6	• 1
relaxation:	r(+)= ro u(+) -	- \(\frac{\chi_0}{\sigma} \)
•	5 . Ko	
0 = G	WL Stil	rel= Sue