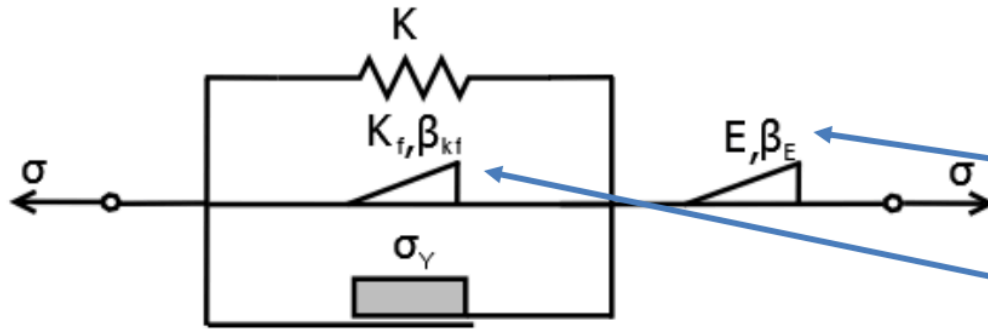


Fractional-order Visco-Elasto-Plasticity



Strain decomposition:

$$\varepsilon = \varepsilon^{ve} + \varepsilon^{vp}$$

Constitutive relation:

$$\sigma = E {}_0^C D_t^{\beta_E} (\varepsilon - \varepsilon^{vp})$$

Yield condition:

$$f(\sigma, \alpha) = |\sigma| - \left[\sigma_Y + K\alpha + K_f {}_0^C D_t^{\beta_{Kf}} (\alpha) \right]$$

Application for trusses:

