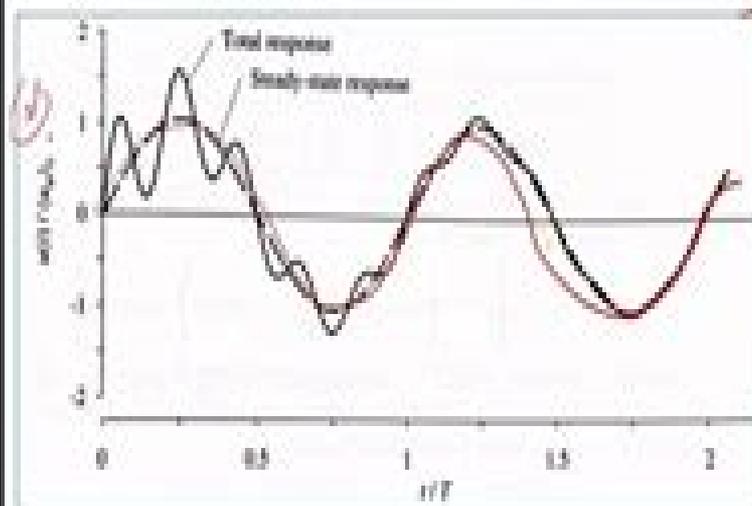


Transient and Steady State Dynamic Response

$$m\ddot{x} + c\dot{x} + kx = F(t) \quad F = f_0 \sin \omega t$$

$$x_p = \left[e^{-\zeta \omega_n t} (B_1 \cos \omega_d t + B_2 \sin \omega_d t) \right] + [C_1 \sin \omega t + C_2 \cos \omega t]$$

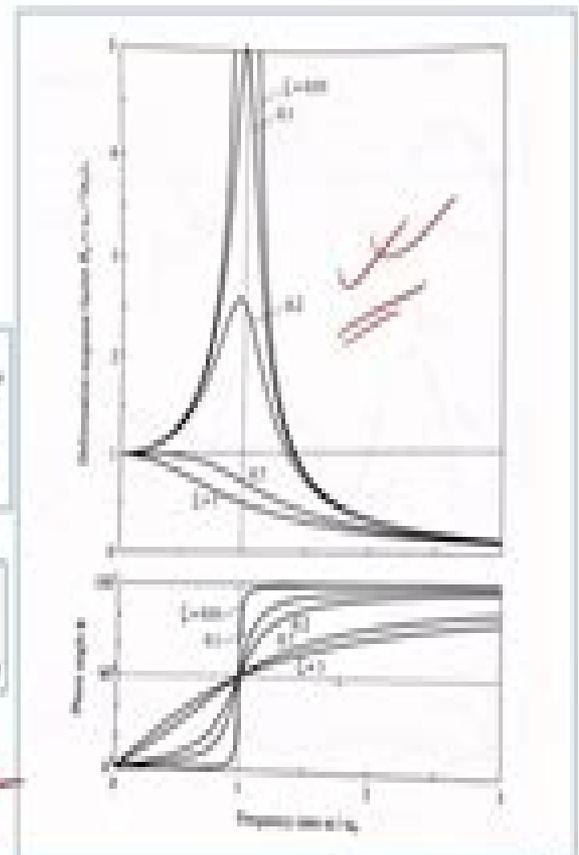
SSR



$$X = \frac{f_0}{k} \frac{1}{\sqrt{1 - \left(\frac{\omega}{\omega_n}\right)^2 + \left(2\zeta \frac{\omega}{\omega_n}\right)^2}}$$

ω = forcing frequency
 ω_n = natural frequency
 ζ = damped natural frequency

T_D - $\omega_n D$
 SSR - ω



Transient response with damping

Steady State response with damping

Transient: Lasting a very short time



Steady State Dynamic Analysis In Abaqus

Ian Pickup



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