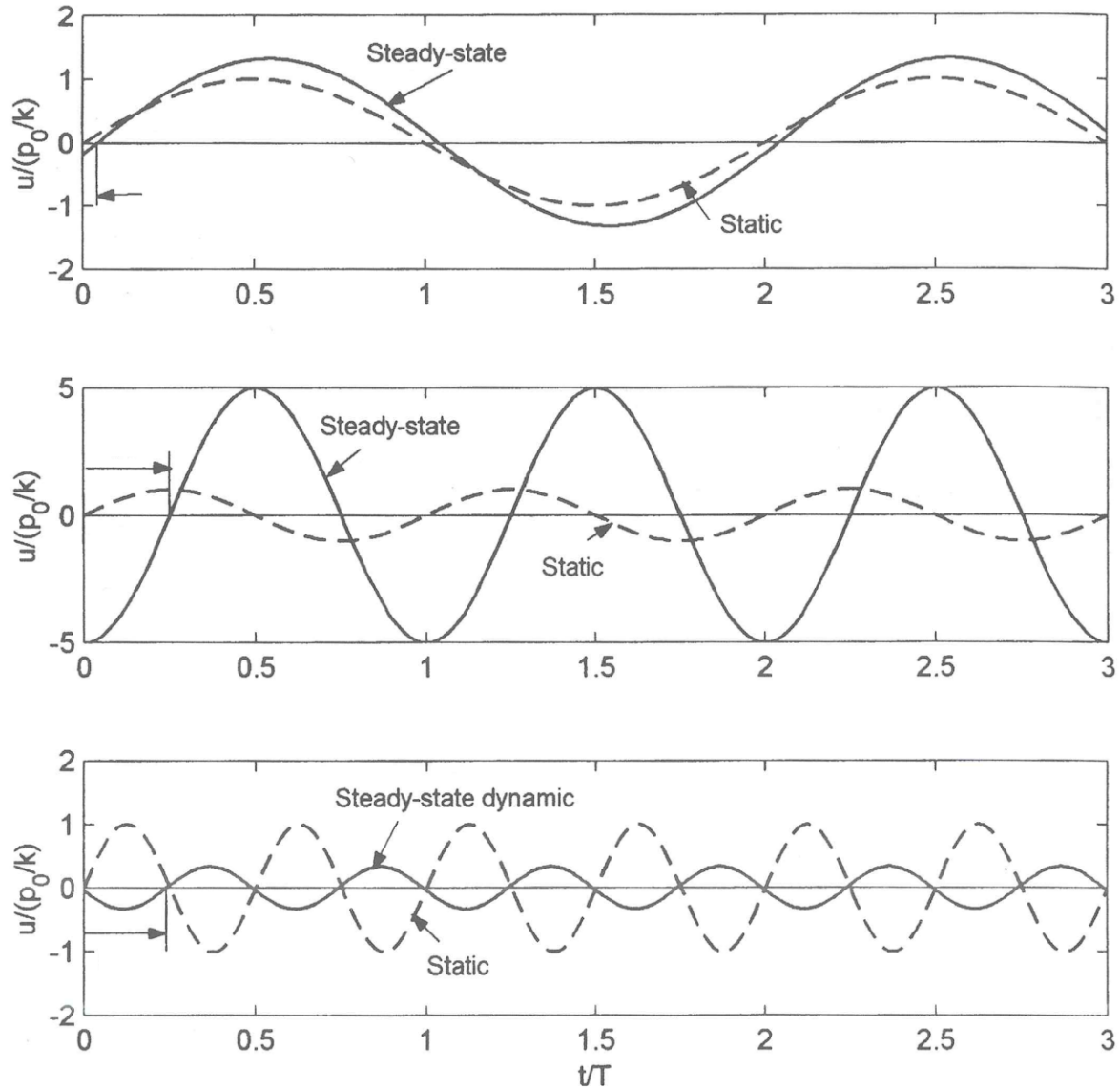


Handout #14



Steady-state response of a damped system with $\xi = 0.1$ to harmonic load:

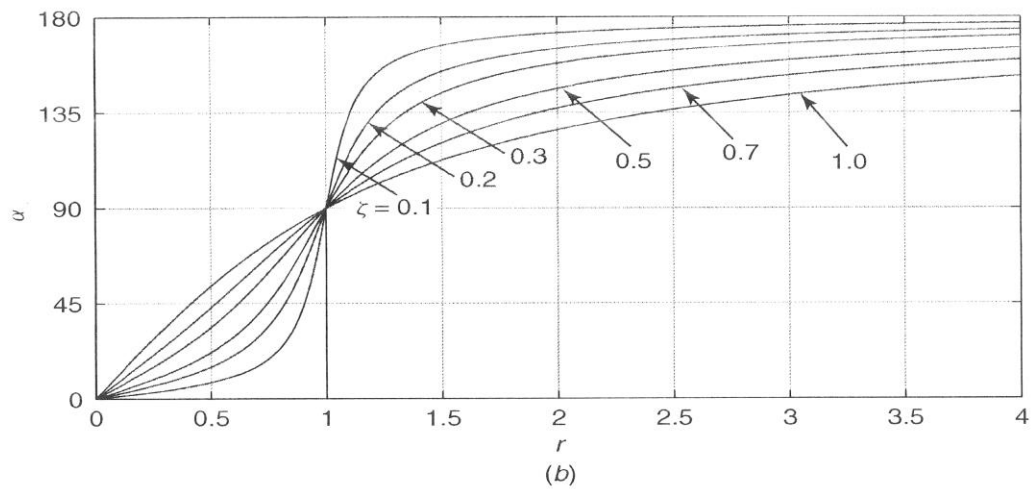
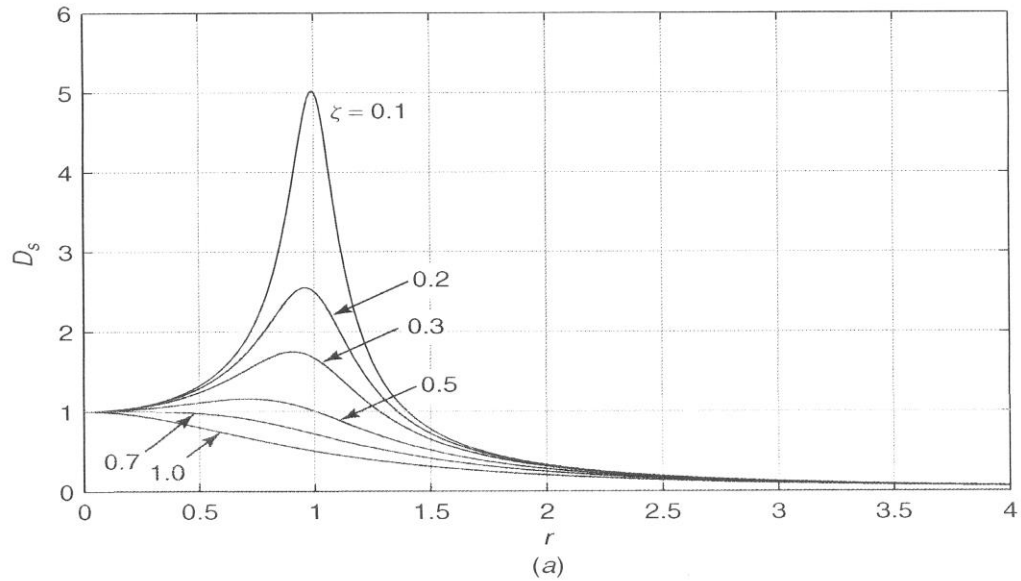
(a) $\beta = 0.5$; (b) $\beta = 1.0$; (c) $\beta = 2.0$

Reference:

Humar, J. L. (2012). *Dynamics of structures*. 2nd ed., ISBN 9058092453, CRC Press.

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Handout #15

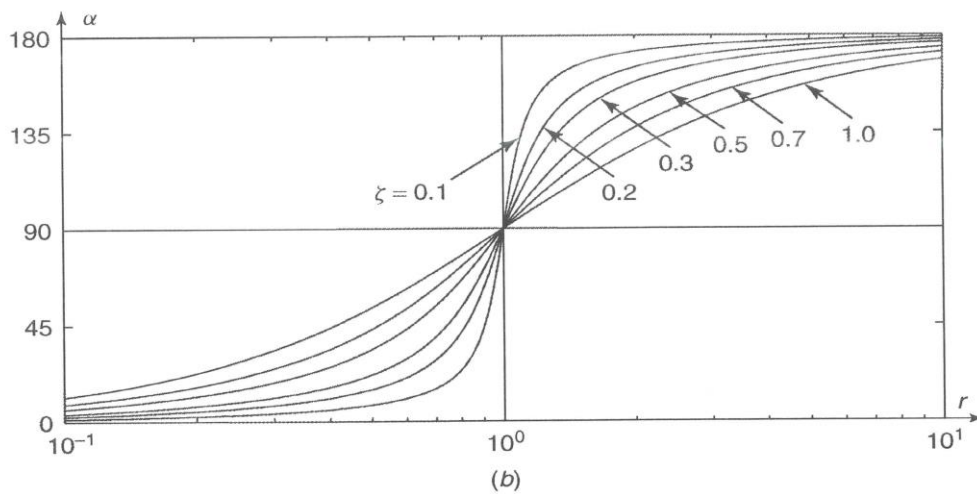
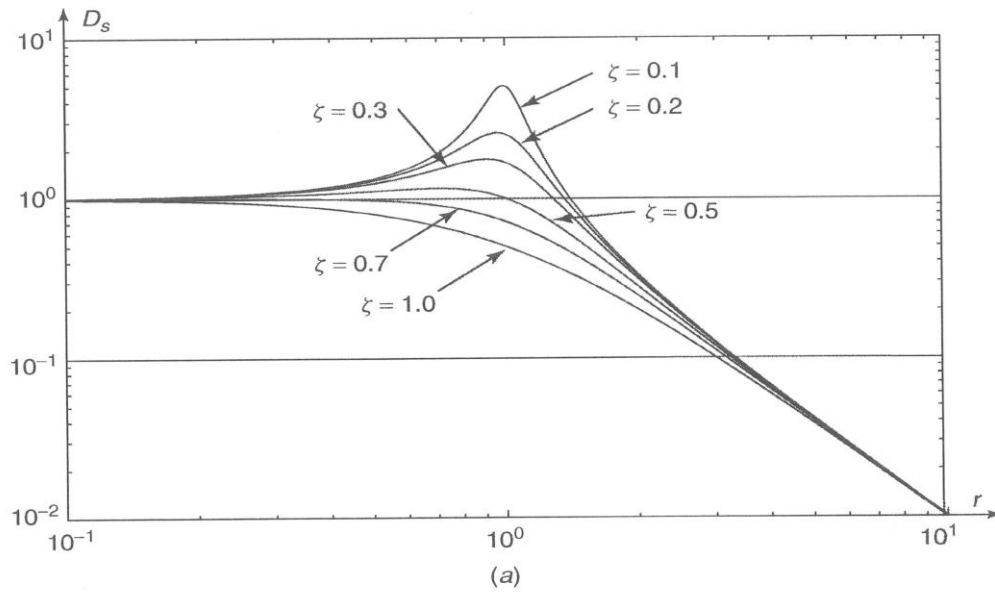


(a) Magnification factor versus frequency ratio for various amounts of damping (linear plot); (b) phase angle versus frequency ratio for various amounts of damping (linear plot).

Reference:

Craig Jr., R. R., Kurdila, A. J. (2006). *Fundamentals of Structural Dynamics*, 2nd ed., Wiley.

Handout #16



(a) Magnification factor versus frequency ratio for various damping factors (log-log plot); (b) phase angle versus frequency ratio for various damping factors (logarithmic frequency scale).

Reference:

Craig Jr., R. R., Kurdila, A. J. (2006). *Fundamentals of Structural Dynamics*, 2nd ed., Wiley.