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Letting the two frequencies corresponding to the roots of 3.10.3 gives  $\omega 2 - \omega 1$   $\omega 22 - \omega 12 \cong 2$   $4\zeta = 2$   $\omega$ n  $\omega$ n 22.457 Mechanical Vibrations - Chapter 3 31 Dr. Peter Avitabile Modal Analysis & Controls Laboratory Sharpness of Resonance The Q factor is defined as  $\omega$ n 1 = Q=  $\omega$ 2 -  $\omega$ 1 2 $\zeta$  22.457 Mechanical Vibrations - Chapter 3 32 (3.10.4)

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particular course, parts of Section 3-5 can be used as assigned reading. Sections 3-6 through 3-8, Section 4-9, and Sections 5-4 through 5-6may be omitted without loss of continuity. For a one-semester senior or dual-level course, the instructor may wish to use Chapters 1 through 4, Chapter 6, and portions of Chapter 7 or 8.

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Rao, S. S., Prasad, A. S. (1975). Vibration of Annular Plates Including the Effects of Rotatory Inertia and Transverse Shear Deformation. Journal of Sound and Vibration, 42, 305-324. Rao, S. S. (1974). A Probabilistic Approach to the Design of Gear Trains.

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