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about analytical methods of vibration analysis of continuous structural systems.

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Free Vibration Again assume harmonic motion. In a continuous

system, there are an infinite number of natural frequencies

(eigenvalues) and associated modes (eigenvectors) so: ω $w(x, t)$

= $\omega(x)$ e separable solution spatially (x) and temporally (t)

Consider the homogeneous case ($p = z$)

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