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Now attention turns to the modes of vibration of continuous systems (beams and plates, etc.) that have an infinite number of natural frequencies and mode shapes. Blevins (1979) provides a valuable set of formulae for calculating the first few modes of most common forms of engineering element-plates, beams, etc. reproduced in Tables 5.4. and 5.5 ...

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Shear deformation and rotary inertia both lower the natural frequency from that predicted by the flexural beam theory, and they become increasingly important in the higher modes of short beams. The natural frequencies and mode shapes of most multistory buildings are dominated by shear deformations between floors.

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Vibrations: a mode of thinking Simon Lacoste-Julien Mathieu Plamondon Lab

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