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Natural Frequency (Eigenvalue)The frequency at which 2 linear elastic structure 'will tend to vibrate once it has been set into motion. A structure can possess many 'natural frequencies. The lowest of these is called the fundamental natural frequency. Each natural frequency is associated with a mode shape of deformation.

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Blevins' reference book is without a doubt the Roark and Young for vibration

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A normal mode of an oscillating system is a pattern of motion in which all parts of the system move sinusoidally with the same frequency and with a fixed phase relation. The free motion described by the normal modes takes place at fixed frequencies. These fixed frequencies of the normal modes of a system are known as its natural frequencies or resonant frequencies. A physical object, such as a building, bridge, or molecule, has a set of normal modes and their natural frequencies that depend on i

*Normal mode - Wikipedia*

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