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The natural frequency is the rate at which an object vibrates when it is not disturbed by an outside force. Each degree of freedom of an object has its own natural frequency, expressed as ω_n (omega subscript n). Frequency (omega) is equal to the speed of vibration divided by the wavelength (λ), where S is the section modulus and I is the moment of inertia of the unit-width strip. Applying the beam bending analogy to the unit-width strip of the plate for the three boundary condition combinations shown in Fig. 2, results in the elastic stresses and deflections as shown in Table 1. In this table, q is the lateral uniformly distributed load, σ is bending stress, w is the plate ...