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Frequency, 'f' (Hertz, Hz) = number of waves per second.

Wave speed, 'c' or 'v' (m/s) = wavelength / period. Phase angle (degrees or radians) = the position along the wave. One complete

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cycle is 360 degrees
(or 2 π) c = wave
speed. f = frequency.
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points on a wave.

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because vibrations and waves are so ubiquitous. For instance, learners will understand how the “resonant” modes of a tall building are analogous to simple systems of coupled oscillators.

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The general solution

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of it is Equation (5.4),
namely.

$$y=f(x-vt)+g(x+vt).$$

(5.4) The wave equation (5.23) and its general solution apply to all waves that travel in one dimension. For example, they describe sound waves in a long tube where the relevant physical parameter is the local

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air pressure $P(x,t)$.

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