

Wave equation

- Wave equations are general equations of motion relating the time and space dependence of the wave displacement, which can be represented by

$$\sum_n a_n \frac{\partial^n \xi}{\partial q^n} = \sum_m b_m \frac{\partial^m \xi}{\partial t^m}$$

where ξ : the displacement

q : a generalized coordinate (x, y, z)

a_n, b_m : constant coefficients

- Application of boundary conditions to $\xi(q, t)$ may limit the allowed modes of vibration.
- The choice of the solution: harmonic waves

$$\xi(x, t) = A \cos(\omega t - kx) = A \cos(\omega t - \frac{2\pi}{\lambda} x)$$

$$\text{or } \xi(x, t) = B \sin(\omega t - kx) = B \sin(\omega t - \frac{2\pi}{\lambda} x)$$

where A and B are amplitudes of the wave.

The wave is moving +x direction

$$\xi(x, t) = A \cos(\omega t + kx) = A \cos(\omega t + \frac{2\pi}{\lambda} x)$$

The wave is moving -x direction

Elements Of Wave Motion Relating To Soun

William Arnold Anthony



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pure oxygen what mass is in excess what mass of MgO is formed 4

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whichever reactant gives the lesser amount of product is the limiting reagent what we need to do is determine an amount of one product either moles or mass assuming all of each reactant reacts

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