Wave Equation

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The general form of the wave equation is:

$$\nabla^2 \Psi - \frac{1}{v^2}\frac{\partial^2 \Psi}{\partial t^2} = 0$$

Plane Waves

Plane waves are solutions to the wave equation where the wavefronts are infinite planes.

Spherical Waves

Spherical waves emanate from a point source and have wavefronts that are spheres.