

Vector operators

Gradient
(Nabla operator)

$$\text{grad } S = \nabla S = \vec{i} \frac{\partial S}{\partial x} + \vec{j} \frac{\partial S}{\partial y} + \vec{k} \frac{\partial S}{\partial z}$$

Divergence

$$\text{div } \vec{A} = \nabla \cdot \vec{A} = \vec{i} \frac{\partial A_x}{\partial x} + \vec{j} \frac{\partial A_y}{\partial y} + \vec{k} \frac{\partial A_z}{\partial z}$$

Curl

$$\text{curl } \vec{A} = \nabla \times \vec{A} = \begin{vmatrix} \vec{i} & \vec{j} & \vec{k} \\ \frac{\partial}{\partial x} & \frac{\partial}{\partial y} & \frac{\partial}{\partial z} \\ A_x & A_y & A_z \end{vmatrix} = \vec{i} \left(\frac{\partial A_z}{\partial y} - \frac{\partial A_y}{\partial z} \right) +$$
$$+ \vec{j} \left(\frac{\partial A_x}{\partial z} - \frac{\partial A_z}{\partial x} \right) + \vec{k} \left(\frac{\partial A_y}{\partial x} - \frac{\partial A_x}{\partial y} \right)$$

Laplacian

$$\Delta S = \nabla^2 S = \text{div grad } S = \frac{\partial^2 S}{\partial x^2} + \frac{\partial^2 S}{\partial y^2} + \frac{\partial^2 S}{\partial z^2}$$

Vectors And Vector Operators

ML Morrison



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