

Multivariable Calculus Identities & Definitions PL. 1

Del/Nabla: $\nabla = \left(\frac{\partial}{\partial x_0}, \frac{\partial}{\partial x_1}, \dots, \frac{\partial}{\partial x_n} \right)$

Chain Rule: $f(x_0(t), x_1(t), \dots, x_n(t))$ or $f(x_0, x_1, \dots, x_n) \circ \vec{g}(t)$; $\vec{g}(t) = (u_0(t), u_1(t), \dots)$

1: $\frac{df}{dt} = \frac{\partial f}{\partial x_0} \frac{dx_0}{dt} + \frac{\partial f}{\partial x_1} \frac{dx_1}{dt} + \dots + \frac{\partial f}{\partial x_n} \frac{dx_n}{dt} = \sum_{i=0}^n \frac{\partial f}{\partial x_i} \frac{dx_i}{dt}$

2: $f'(\vec{g}(t)) = \nabla f(\vec{g}(t)) \cdot \vec{g}'(t)$

Gradient: $f(x_0, x_1, \dots, x_n)$; $\nabla f = \left(\frac{\partial f}{\partial x_0}, \frac{\partial f}{\partial x_1}, \dots, \frac{\partial f}{\partial x_n} \right)$

Directional Derivative: $f(x_0, x_1, \dots, x_n)$; $\vec{v} = (v_0, v_1, \dots, v_n)$

$\nabla_{\vec{v}} f = \nabla f \cdot \vec{v} = \frac{\partial f}{\partial x_0} v_0 + \frac{\partial f}{\partial x_1} v_1 + \dots + \frac{\partial f}{\partial x_n} v_n = \sum_{i=0}^n \frac{\partial f}{\partial x_i} v_i$

Divergence: $\vec{f}(x_0, x_1, \dots, x_n)$; $\nabla \cdot \vec{f} = \frac{\partial f_0}{\partial x_0} + \frac{\partial f_1}{\partial x_1} + \dots + \frac{\partial f_n}{\partial x_n} = \sum_{i=0}^n \frac{\partial f_i}{\partial x_i}$

2D Curl: $f(x, y) = (P(x, y), Q(x, y))$; $\text{Curl}(f) = \frac{\partial Q}{\partial x} - \frac{\partial P}{\partial y}$

3D Curl: $f(x, y, z) = (P(x, y, z), Q(x, y, z), R(x, y, z))$

$\text{Curl}(f) = \nabla \times f = \det \begin{pmatrix} \hat{i} & \hat{j} & \hat{k} \\ \frac{\partial}{\partial x} & \frac{\partial}{\partial y} & \frac{\partial}{\partial z} \\ P & Q & R \end{pmatrix}$

$= \left(\frac{\partial R}{\partial y} - \frac{\partial Q}{\partial z} \right) \hat{i} - \left(\frac{\partial R}{\partial x} - \frac{\partial P}{\partial z} \right) \hat{j} + \left(\frac{\partial Q}{\partial x} - \frac{\partial P}{\partial y} \right) \hat{k}$

Laplacian: $f(x_0, x_1, \dots, x_n)$; $\Delta f = \nabla^2 f = \nabla \cdot \nabla f$

$= \frac{\partial^2 f}{\partial x_0^2} + \frac{\partial^2 f}{\partial x_1^2} + \dots + \frac{\partial^2 f}{\partial x_n^2} = \sum_{i=0}^n \frac{\partial^2 f}{\partial x_i^2}$

Jacobian: $\vec{f}(f_1(x_0, \dots, x_n), \dots, f_m(x_0, \dots, x_n))$

$J_{ij} = \frac{\partial f_i}{\partial x_j} \Leftrightarrow J = \left[\frac{\partial \vec{f}}{\partial x_0} \cdot \frac{\partial \vec{f}}{\partial x_1} \cdots \frac{\partial \vec{f}}{\partial x_n} \right]$

$= \begin{bmatrix} \frac{\partial f_0}{\partial x_0} & \cdots & \frac{\partial f_0}{\partial x_n} \\ \vdots & \ddots & \vdots \\ \frac{\partial f_m}{\partial x_0} & \cdots & \frac{\partial f_m}{\partial x_n} \end{bmatrix}$

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several stretches were shown to be done mornings and evenings i suggested side stretches for the quadratus lumborum a couple of stretches for the rhomboids and the neck to help maintain the improvement and to keep the see more

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