Partial Differential Equation (PDE) @math

Differential equation that contains unknown multivariable functions and their partial derivatives

A typical example is diffusion equation for a function $p(t, x, y, z)$ or 4 variables:

(1) $$\frac{\partial p}{\partial t} = \frac{\partial^2 p}{\partial x^2} + \frac{\partial^2 p}{\partial y^2} + \frac{\partial^2 p}{\partial z^2}$$

See also

Formal science / Mathematics