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Elements of Partial Differential Equations by Ian N. Sneddon

Partial Differential Equations (PDE) is a very large field of mathematics. Most of the problems originated in the characterization of fields occurring in classical and modern physics such as potential and wave equations associated with gravitation, electromagnetism, and quantum mechanics.

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Partial differential equation - Wikipedia

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Finite element method - Wikipedia

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where $f_1(x, y) = 0$ is the equation obtained by eliminating t from the equations $x = f_1(t)$, $y = f_2(t)$ and where $f_2(x, z) = 0$ is the one obtained by eliminating t between the pair $x = f_1(t)$, $z = f_3(t)$. A usual parameter t to take is the length of the curve measured from some fixed point.

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-[partial derivative]H/[partial derivative]q = P(p,q,t)/R(p,q,t), [partial derivative]H/[partial derivative]p = Q(p,q,t)/R(p,q,t) then we may put the equations (4) in the form $dp/P(p,q,t) = dq/Q(p,q,t) = dt/R(p,q,t)$ (5)

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