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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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In mathematics, a partial differential equation (PDE) is an equation which imposes relations between the

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various partial derivatives of a multivariable function.. The function is often thought of as an "unknown" to be solved for, similarly to how  $x$  is thought of as an unknown number, to be solved for, in an algebraic equation like  $x^2 - 3x + 2 = 0$ . ...

Partial differential equation - Wikipedia

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PARTIAL DIFFERENTIAL EQUATIONS - Sharif

The mixed finite element method is a type of finite element method in which extra independent variables are introduced as nodal variables during the discretization of a partial differential equation problem.

Finite element method - Wikipedia

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where  $\phi_1(x, y) = 0$  is the equation obtained by eliminating  $t$  from the equations  $x = f_1(t)$ ,  $y = f_2(t)$  and where  $\phi_2(x, z) = 0$  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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$-\frac{\partial H}{\partial q} = P(p, q, t) / R(p, q, t)$ ,  $\frac{\partial H}{\partial p} = Q(p, q, t) / R(p, q, t)$  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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