

## Partial Differential Equations For Scientists Engineers

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In the case of partial differential equations in which one of the independent variables is the time, an initial condition(s) specifies the physical state of the dependent variable  $u(x,t)$  at a particular

$u(x,0)$  and/or  $u_t(x,0)$  are specified to determine the function  $u(x,t)$  at later times.

## **Nonlinear Partial Differential Equations for Scientists ...**

"... partial differential equations are the basis of all physical theorems. In the theory of sound in gases, liquid and solids, in the investigations of elasticity, in optics, everywhere partial differential equations formulate basic laws of nature which can be checked against experiments." Bernhard Riemann

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The Schrödinger equation is a linear partial differential equation that describes the wave function or state function of a quantum-mechanical system. It is a key result in quantum mechanics, and its discovery was a significant landmark in the development of the subject. The equation is named after Erwin Schrödinger, who postulated the equation in 1925, and published it in 1926, forming ...

## **Schrödinger equation - Wikipedia**

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If it does, it's a partial differential equation (PDE) ODEs involve a single independent variable with the differentials based on that single variable. An ordinary differential equation (or ODE) has a discrete (finite) set of variables; they often model one-dimensional dynamical systems, such as the swinging of a pendulum over time.

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The resulting differential equation is  $dS/dt = rS + k$ , (7.2) which can be solved with the initial condition  $S(0) = S_0$ , where  $S_0$  is the initial capital. The differential equation is linear and the standard form is  $dS/dt - rS = k$ , so that the integrating factor is given by  $m(t) = e^{-rt}$ . The solution is therefore  $S(t) = e^{rt} (S_0 + \frac{k}{r}(1 - e^{-rt}))$ .

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