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condition is $u(0,t) = n_0$. To solve the
equation go to

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characteristic coordinates $\xi = x - ct$ and $\tau = t$. Then the PDE for $N = N(\xi, \tau)$ is $N_\tau = -r\sqrt{N}$. Separate variables and integrate to get $2\sqrt{N} = -r\tau + \Phi(\xi)$.

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Laplace's equation.

Differential Equations - Partial Differential Equations

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9. Diffusion Equations and Parabolic Problems | Finite ...

Partial differential equation, in

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mathematics, equation relating a function of several variables to its partial derivatives. A partial derivative of a function of several variables expresses how fast the function changes when one of its variables is changed, the others being held constant (compare ordinary differential equation).

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Partial differential equation | mathematics | Britannica

Analysis of a spatially inhomogeneous
stochastic partial differential equation
epidemic model - Volume 57 Issue 2 -
Dang H. Nguyen, Nhu N. Nguyen,
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inhomogeneous stochastic partial ...

The aim of this is to introduce and motivate partial differential equations (PDE). The section also places the scope of studies in APM346 within the vast universe of mathematics.

1.1.1 What is a PDE?

A partial differential equation (PDE) is an equation involving partial derivatives. This is not so informative so let's

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break it down a bit.

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