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Historically, partial differential equations

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originated from the study of surfaces in geometry and for solving a wide variety of problems in mechanics. During the second half of the nineteenth century, a large number of mathematicians became actively involved in the investigation of numerous problems presented by partial differential equations.

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which can be checked against experiments.” Bernhard Riemann

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(diffusion equation) These are second-order differential equations, categorized according to the highest order derivative. The RLC circuit equation (and

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pendulum equation) is an ordinary differential equation, or ode, and the diffusion equation is a partial differential equation, or pde.

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The first three chapters focus on basic

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properties of partial differential equations, including analysis of the dispersion relation, symmetries, particular solutions and instabilities of the PDEs; methods of discretization and convergence theory for initial value problems.

Numerical Time-Dependent Partial

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Differential Equations ...

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

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algebraic equation like $x^2 - 3x + 2 = 0$.

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