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Partial Differential Equations for Scientists and ...

Most physical phenomena, whether in the domain of fluid dynamics, electricity, magnetism, mechanics, optics, or heat flow, can be described in general by partial differential equations. Indeed, such equations are crucial to mathematical physics. Although simplifications can be made that reduce these equations to ordinary differential equations, nevertheless the complete description of physical systems resides in the general area of partial differential equations.

Partial Differential Equations for Scientists and Engineers

One of the most fundamental and active areas in mathematics, the theory of partial differential equations (PDEs) is essential in the modeling of natural phenomena. PDEs have a wide range of interesting and important applications in every branch of applied mathematics, physics, and engineering, including fluid dynamics, elasticity, and optics.

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Historically, partial differential equations originated from the study of surfaces in ge- ometry 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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Schrödinger equation - Wikipedia

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" ... 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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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.

Differential Equations — Basics - Towards Data Science

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