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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

3 Partial Differential Equations in Rectangular Coordinates 29 3.1 Partial Differential Equations in Physics and Engineering 29 3.3 Solution of the One Dimensional Wave Equation: The Method of Separation of Variables 31 3.4 D ' Alembert ' s Method 35 3.5 The One Dimensional Heat Equation 41 3.6 Heat Conduction in Bars: Varying the Boundary ...

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