

basic linear partial differential pdf

A parabolic partial differential equation is a type of partial differential equation (PDE). Parabolic PDEs are used to describe a wide variety of time-dependent phenomena, including heat conduction, particle diffusion, and pricing of derivative investment instruments

Parabolic partial differential equation - Wikipedia

Linearity is the property of a mathematical relationship or function which means that it can be graphically represented as a straight line. Examples are the relationship of voltage and current across a resistor ($V = IR$), or the mass and weight of an object. Proportionality implies linearity, but linearity does not imply proportionality.

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