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(diffusion equation) These are second-order differential equations, categorized according to the highest order derivative. The RLC circuit equation (and pendulum equation) is an ordinary differential equation, or ode, and the

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diffusion equation is a partial differential equation, or pde.

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

...

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