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A visualisation of a solution to the two-dimensional heat equation with temperature represented by the vertical direction In mathematics, a partial differential equation (PDE) is an equation which imposes relations between the various partial derivatives of a multivariable function.

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Synopsis For introductory courses in Partial Differential Equations (PDEs) taken by majors in engineering, physics, and mathematics. This example-rich text fosters a smooth transition from elementary ordinary differential equations courses to more advanced concepts in a first course on PDEs.

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