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Moral A PDE has arbitrary functions in its solution. In these examples the arbitrary functions are functions of one variable that combine to produce a function $u(x,y)$ of two variables which is only partly arbitrary. A function of two variables contains immensely more information than a function of only one variable.

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Partial Differential Equations: Second Edition. Lawrence C. Evans. Publication Year: 2010. ISBN-10: 0-8218-4974-3. ISBN-13: 978-0-8218-4974-3. Graduate Series in Mathematics, vol. 19.R.

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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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~~Partial Differential Equations~~

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$\frac{\partial^2 U}{\partial x_i \partial x_j}$, $i, j = 1, \dots, n$ are the partial derivatives of u .

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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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An introduction to nonlinear partial differential equations / J. David Logan. - 2nd ed. Includes bibliographical references and index. ISBN 978-0-470-22595-0 (cloth : acid-free paper)

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