



Introduction to Partial Differential Equations for Scientists and Engineers Using Mathematica

Kuzman Adziewski, Abul Hasan Siddiqi

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With a special emphasis on engineering and science applications, this textbook provides a mathematical introduction to PDEs at the undergraduate level. It takes a new approach to PDEs by presenting computation as an integral part of the study of differential equations. The authors use *Mathematica*[®] along with graphics to improve understanding and interpretation of concepts. They also present exercises in each chapter and solutions to selected examples. Topics discussed include Laplace and Fourier transforms as well as Sturm-Liouville boundary value problems.

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