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2. Second-order Partial Differential Equations 39 2.1. Linear Equations 39 2.2. Classification and Canonical Forms of Equations in Two Independent Variables 46 2.3. Classification of Almost-linear Equations in Rⁿ 59 3. One Dimensional Wave Equation 67 67 78 84 92 3.1. The Wave Equation on the Whole Line. D'Alembert Formula 3.2. The Wave ...

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In partial differential equations, developing techniques are frequently more important than general theorems. Partial differential equations, a nonlinear heat equation, played a central role in the recent proof of the Poincaré conjecture which concerns characterizing the sphere, S³, topologically.

Partial Differential Equations
Nonlinear Wave Equations, NSF-CBMS Research Monograph, Amer. Math. Soc., Providence, 1989. Partial Differential Equations: An Introduction. Click here for a list of errata. The Second Edition has been in print since 2008. It is strongly recommended that students use it in conjunction with the solutions manual.

Walter Strauss - Department of Mathematics - Brown University
Partial Differential Equations Math 110, Fall 2020: under construction . Course Description: An introduction to partial differential equations focusing on equations in two variables. Topics include the heat and wave equation on an interval, Laplace's equation on rectangular and circular domains, separation of variables, boundary conditions and eigenfunctions, introduction to Fourier series,

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Walter A. Strauss, Partial Differential Equations: An Introduction, 2nd ed., Wiley (2007) ISBN-10: 0470054565 ISBN-13: 978-0470054567 Additional Texts: Annotated list of additional texts. We shall basically follow the text. But much of the material is standard and widely available. Therefore, students might be able to get by without owning the ...

Math 5440 - Other Texts
Partial differential equations also occupy a large sector of pure mathematical research, in which the usual questions are, broadly speaking, on the identification of general qualitative features of solutions of various partial differential equations. [citation needed]

Partial differential equation - Wikipedia
Errata in "Partial Differential Equations, an Introduction", FIRST Edition, by Walter A. Strauss (John Wiley and Sons, New York, ISBN 0-471-54868-5) The following errata are for the 6th (or later) printing of the First Edition. (To identify which printing your copy is, look at the last number on the page before the preface.)