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Applied Partial Differential Equations (3rd Edition), by JD Logan 1 Linear and homogeneous PDEs with constant coefficients have plane wave solutions, $u(x;t) = A e^{i(kx - \omega t)}$, where A is the amplitude, k is the wave number, and ω is the (temporal) frequency The solution requires that $\omega = k c$

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J. David Logan - University of Nebraska-Lincoln

J David Logan Willa Cather Professor Emeritus Applied Partial Differential Equations, 3rd ed, Springer, New York Logan, 1995 A partial differential equation with a functional source, Panamerican Mathematical Journal 5(1) 13-23 42 S Cohn & J D Logan, 1995 Mathematical analysis of a reactive-diffusive model of

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J David Logan Applied Partial Differential Equations With-35 Illustrations \ Springer Contents Preface v To the Student ix Chapter 1: The Physical Origins of Partial Differential Equations 1 11 Mathematical Models 1 12 Conservation Laws 9 13 Diffusion 15 14 Contaminant Transport in Aquifers* 20 15 Vibrations of a String 24 16 Quantum

Partial Differential Equations: An Introduction, 2nd Edition

in this book. However, because partial differential equations is a subject at the forefront of research in modern science, I have not hesitated to mention advanced ideas as further topics for the ambitious student to pursue. This is an undergraduate textbook. It is designed for juniors and seniors who are science, engineering, or mathematics.

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David Logan, Applied Partial Differential Equations (Undergraduate Texts in Mathematics) HF Weinberger, A First Course in Partial Differential Equations With Complex Variables and Transform Methods Approximate Schedule: Chapter 1, Introduction 22 August{12 September Chapter 2, Four basic equations 14 September{19 October Midterm exam 22 October

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Nonlinear partial differential equations (PDEs) is a vast area and practitioners include applied mathematicians analysts and others in the pure and applied sciences This introductory text on nonlinear partial differential equations evolved from a graduate course I have taught for many years at the University of Nebraska at Lincoln

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[DF2] D G Duffy, Transform Methods for Solving Partial Differential Equations, Chapman & Hall/CRC, 2004 Homework Homework will be assigned

every week with their corresponding due date A discussion of the solutions of homework problems will be held during a ...

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MATH 404

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Chapter 1: Overview of Partial Differential Equations of

https://www3.nd.edu/~dbalsara/Numerical-PDE-Course/ch1/Chp1_Overviewpdf

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