

Hyperbolic Partial Differential Equations

By Peter D. Lax

American Mathematical Society. Paperback. Book Condition: new. BRAND NEW, Hyperbolic Partial Differential Equations, Peter D. Lax, The theory of hyperbolic equations is a large subject, and its applications are many: fluid dynamics and aerodynamics, the theory of elasticity, optics, electromagnetic waves, direct and inverse scattering, and the general theory of relativity. This book is an introduction to most facets of the theory and is an ideal text for a second-year graduate course on the subject. The first part deals with the basic theory: the relation of hyperbolicity to the finite propagation of signals, the concept and role of characteristic surfaces and rays, energy, and energy inequalities. The structure of solutions of equations with constant coefficients is explored with the help of the Fourier and Radon transforms. The existence of solutions of equations with variable coefficients with prescribed initial values is proved using energy inequalities. The propagation of singularities is studied with the help of progressing waves. The second part describes finite difference approximations of hyperbolic equations, presents a streamlined version of the Lax-Phillips scattering theory, and covers basic concepts and results for hyperbolic systems of conservation laws, an active research area today. Four brief appendices sketch topics that are important...



Reviews

Undoubtedly, this is actually the greatest job by any author. This can be for those who statte there was not a worthy of studying. I am delighted to inform you that this is actually the greatest publication i actually have read within my very own daily life and could be he greatest book for ever. -- Perry Reinger

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