

Generalized Solutions Of Nonlinear Partial Differential

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Generalized Solutions Of Nonlinear Partial

This chapter discusses the generalized solutions of nonlinear partial differential equations. Colombeau's method can yield generalized solutions for linear and nonlinear partial differential equations, which cannot be obtained for instance within the Schwartz distributions.

Chapter 2 Generalized Solutions of Nonlinear Partial ...

Generalized Solutions of Nonlinear Partial Differential Equations, Volume 146 Table of Contents. Review of Some Essentials in Weak Solutions and Distributions. Classical Versus Distribution Solutions. Description. During the last few years, several fairly systematic nonlinear theories of ...

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Despite decades of research and progress in the theory of generalized solutions to first-order nonlinear partial differential equations, a gap between the local and the global theories remains: The Cauchy characteristic method yields the local theory of classical solutions.

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and regularity of generalized solutions of large classes of systems of nonlinear partial differential equations (PDEs). In this regard, our point of departure is the Order Completion Method. The spaces of generalized functions to which the solutions of such systems of PDEs belong are constructed as the completions of suitable uniform

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Part 2 examines the way Colombeau constructs a nonlinear theory of generalized functions and then succeeds in proving quite impressive existence, uniqueness, regularity, etc., results concerning generalized solutions of large classes of linear and nonlinear partial differential equations.

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The essence of the two nonlinear theories presented in this volume is the observation that much of the mathematics concerning existence, uniqueness regularity, etc., of generalized solutions for nonlinear partial differential equations can be reduced to elementary calculus in Euclidean spaces, combined with elementary algebra in quotient rings of families of smooth functions on Euclidean spaces, all of that joined by certain asymptotic interpretations.

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The result is a rather elementary yet powerful and far-reaching method which can, among others, give generalized solutions to linear and nonlinear partial differential equations previously unsolved or even unsolvable within distributions or hyperfunctions. Part 1 of the volume discusses the basic limitations of the linear theory of distributions when dealing with linear or nonlinear partial differential equations, particularly the impossibility and degeneracy results.

E.E. Rosinger: Generalized Solutions of Nonlinear Partial ...

Generalized solutions In many applications of mathematics, one uses a set of equations (often a set of partial differential equations) to model some system in real-life or in theoretical science; a typical such system might be expressible as a linear partial differential equation $Lu(x) = f(x)$ for all $x \in \Omega$ where Ω is the domain of space (or spacetime ...

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