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The survey articles provide excellent introductions for interested researchers

Potential readers belong to several areas of mathematics

The set of original papers covers a wide range of up-to-date and hot topics in the study of PDE's. The study of qualitative aspects of PDE's has always attracted much attention from the early beginnings. More recently, once basic issues about PDE's, such as existence, uniqueness and stability of solutions, have been understood quite well, research on topological and/or geometric properties of their solutions has become more intense. The study of these issues is attracting the interest of an increasing number of researchers and is now a broad and well-established research area, with contributions that often come from experts from disparate areas of mathematics, such as differential and convex geometry, functional analysis, calculus of variations, mathematical physics, to name a few.

This volume collects a selection of original results and informative surveys by a group of international specialists in the field, analyzes new trends and techniques and aims at promoting scientific collaboration and stimulating future developments and perspectives in this very active area of research.

Content Level » Research

Keywords » asymptotic analysis - elliptic and parabolic partial differential equations - functional inequalities - geometric properties of solutions - level set analysis

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