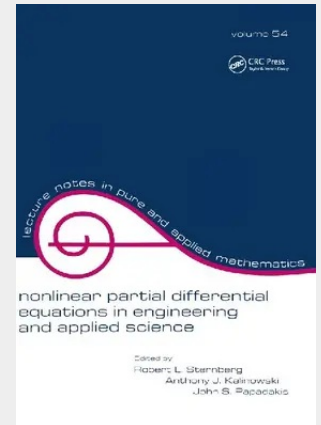


Nonlinear Partial Differential Equations in Engineering and Applied Science

In this volume are twenty-eight papers from the Conference on Nonlinear Partial Differential Equations in Engineering and Applied Science, sponsored by the Office of Naval Research and held at the University of Rhode Island in June, 1979. Included are contributions from an international group of distinguished mathematicians, scientists, and engineers coming from a wide variety of disciplines and having a common interest in the application of mathematics, particularly nonlinear partial differential equations, to real world problems. The subject matter ranges from almost purely mathematical topics in numerical analysis and bifurcation theory to a host of practical applications that involve nonlinear partial differential equations, such as fluid dynamics, nonlinear waves, elasticity, viscoelasticity, hyperelasticity, solitons, metallurgy, shockless airfoil design, quantum fields, and Darcy's law on flows in porous media. Nonlinear Partial Differential Equations in Engineering and Applied Science focuses on a variety of topics of specialized, contemporary concern to mathematicians, physical and biological scientists, and engineers who work with phenomena that can be described by nonlinear partial differential equations.

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