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	Autore	ROSSEN, Janice
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Nota di contenuto

Convergence properties of strongly-damped semilinear wave equations -- Numerical solution of certain nonlinear parabolic partial differential equations -- The explicit solution of nonlinear ordinary and partial differential equations I. Conceptual ideas -- Uniform boundness and generalized inverses in liapunov-schmidt method for subharmonics -- Existence of radially symmetric solutions of strongly damped wave equations -- Strongly damped semilinear second order equations -- Nonlinear semigroup theory and viscosity solutions of Hamilton-Jacobi PDE -- Evolution equations with nonlinear boundary conditions -- Asymptotically smooth semigroups and applications -- The principle of spatial averaging and inertial manifolds for reaction-diffusion equations -- Applications of semigroup theory to reaction-diffusion systems -- Ultrasingularities in nonlinear waves -- A reaction-hyperbolic system in physiology -- Compact perturbations of linear m-dissipative operators which lack Gihman's property -- Two compactness lemmas -- The riccati equation: When nonlinearity reduces to linearity.

Sommario/riassunto

The original idea of the organizers of the Washington Symposium was to span a fairly narrow range of topics on some recent techniques developed for the investigation of nonlinear partial differential equations and discuss these in a forum of experts. It soon became clear, however, that the dynamical systems approach interfaced significantly with many important branches of applied mathematics. As a consequence, the scope of this resulting proceedings volume is an enlarged one with coverage of a wider range of research topics.