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Nota di contenuto	Preface; CONTENTS; Herbert Amann Maximal Regularity and Quasilinear Parabolic Boundary Value Problems; Assis Azevedo, Jose-Francisco Rodrigues and Lisa Santos Remarks on the Two and Three Membranes Problem; Jann-Long Chern and Sze-Guang Yang On the Applications from the Divergence-type Identities in Punctured Domain; Manuel Del Pino and Monica Musso Bubbling and Criticality in Two and Higher Dimensions; Pierpaolo Esposito Blow up Solutions for a Liouville Equation with Singular Data Jacques Giacomoni, Jyotshana Prajapat and Mythily Ramaswamy Positive Solution Branch for Elliptic Problems with Critical Indefinite NonlinearityLiliana Gratie Existence Theory for a New Semi-linear Elliptic System Arising in Nonlinear Shell Theory; Patrick Guidotti Problems in Unbounded Cylindrical Domains; Jong-Shenq Guo Entire Solutions of Some Reaction-Diffusion Equations; Jongmin Han and Namkwon Kim Some Abelian Gauge Field Theories in the Self-dual and

Nonselvdual Cases; Satoshi Kosugi Ginzburg-Landau Equations on Non-uniform Media  
Chang-Shou Lin and Tai-Chia Lin Phase Separation of Bound State Solutions of a System of Nonlinear Schrodinger Equations  
Chun-Chi Lin and Hartmut R. Schwetlick Finding the Elasticae by Means of Geometric Gradient Flows; Stephan Luckhaus Uniform Rectifiability from Mean Curvature Bounds; Mariarosaria Padula Free Work Identity and Nonlinear Instability in Fluids with Free Boundaries; Pavol Quittner Complete and Energy Blow-up in Superlinear Parabolic Problems; Vsevolod A. Solonnikov On Linear Stability and Instability of Equilibrium Figures of Uniformly Rotating Liquid  
Takashi Suzuki and Futoshi Takahashi On Non-topological Multivortex Condensates in the Generalized Self-dual Chern-Simons Theory  
Eiji Yanagida Non-stabilizing Solutions for a Supercritical Semilinear Parabolic Equation

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Sommario/riassunto

The book is an account on recent advances in elliptic and parabolic problems and related equations, including general quasi-linear equations, variational structures, Bose-Einstein condensate, Chern-Simons model, geometric shell theory and stability in fluids. It presents very up-to-date research on central issues of these problems such as maximal regularity, bubbling, blowing-up, bifurcation of solutions and wave interaction. The contributors are well known leading mathematicians and prominent young researchers. The proceedings have been selected for coverage in: Index to Scientific & Techn

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