

Contents

1	Global Existence and Energy Decay of Solutions for a Nondissipative Wave Equation with a Time-Varying Delay Term . . .	1
	Abbes Benaissa and Salim A. Messaoudi	
2	Non-uniqueness and Uniqueness in the Cauchy Problem of Elliptic and Backward-Parabolic Equations	27
	Daniele Del Santo and Christian P. Jäh	
3	On Internal Regularity of Solutions to the Initial Value Problem for the Zakharov–Kuznetsov Equation	53
	A.V. Faminskii and A.P. Antonova	
4	Singular Semilinear Elliptic Equations with Subquadratic Gradient Terms	75
	Marius Ghergu	
5	On the Parabolic Regime of a Hyperbolic Equation with Weak Dissipation: The Coercive Case	93
	Marina Ghisi and Massimo Gobbino	
6	H^∞ Well-Posedness for Degenerate p-Evolution Models of Higher Order with Time-Dependent Coefficients	125
	Torsten Herrmann, Michael Reissig, and Karen Yagdjian	
7	On the Global Solvability for Semilinear Wave Equations with Smooth Time Dependent Propagation Speeds	153
	Fumihiko Hirose, Takuhiro Inooka, and Trieu Duong Pham	
8	Filippov Solutions to Systems of Ordinary Differential Equations with Delta Function Terms as Summands	183
	Uladzimir Hrusheuski	
9	Resolvent Estimates and Scattering Problems for Schrödinger, Klein-Gordon and Wave Equations	201
	Kiyoshi Mochizuki	

10	On an Optimal Control Problem for the Wave Equation in One Space Dimension Controlled by Third Type Boundary Data	223
	Alexey Nikitin	
11	Critical Exponent for the Semilinear Wave Equation with Time or Space Dependent Damping	239
	Kenji Nishihara	
12	A Note on a Class of Conservative, Well-Posed Linear Control Systems	261
	Rainer Picard, Sascha Trostorff, and Marcus Waurick	
13	Recent Progress in Smoothing Estimates for Evolution Equations . .	287
	Michael Ruzhansky and Mitsuru Sugimoto	
14	Differentiability of Inverse Operators	303
	Simon Y. Serovajsky	
15	Solution of the Cauchy Problem for Generalized Euler-Poisson-Darboux Equation by the Method of Fractional Integrals	321
	A.K. Urinov and S.T. Karimov	
16	Quasi-symmetrizer and Hyperbolic Equations	339
	Giovanni Taglialatela	
17	Thermo-elasticity for Anisotropic Media in Higher Dimensions . . .	367
	Jens Wirth	
18	Global Solutions of Semilinear System of Klein-Gordon Equations in de Sitter Spacetime	409
	Karen Yagdjian	
	Index	445

Progress in Partial Differential Equations

Asymptotic Profiles, Regularity and Well-Posedness

Reissig, M.; Ruzhansky, M.V. (Eds.)

2013, VIII, 447 p., Hardcover

ISBN: 978-3-319-00124-1