

# Contents

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

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



<http://www.springer.com/978-3-319-00124-1>

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