

Contents

Preface	vii
<i>R. Agliardi</i>	
Some Applications of a Closed-form Solution for Compound Options of Order N	1
<i>A.A. Albanese</i>	
Surjective Linear Partial Differential Operators with Variable Coefficients on Non-quasianalytic Classes of Roumieu Type	7
<i>A. Ascanelli and M. Cicognani</i>	
The Fundamental Solution for a Second Order Weakly Hyperbolic Cauchy problem	17
<i>L. Baracco, A. Siano and G. Zampieri</i>	
Pseudoholomorphic Discs Attached to Pseudoconcave Domains	27
<i>H. Beirão da Veiga</i>	
Vorticity and Regularity for Solutions of Initial-boundary Value Problems for the Navier–Stokes Equations	39
<i>M. Cappiello, T. Gramchev and L. Rodino</i>	
Exponential Decay and Regularity for SG-elliptic Operators with Polynomial Coefficients	49
<i>F.A.C.C. Chalub and J.F. Rodrigues</i>	
A Short Description of Kinetic Models for Chemotaxis	59
<i>M. Chipot, A. Elfanni and A. Rougirel</i>	
Eigenvalues, Eigenfunctions in Domains Becoming Unbounded	69
<i>F. Colombini</i>	
Loss of Derivatives for $t \rightarrow \infty$ in Strictly Hyperbolic Cauchy Problems	79
<i>R.M. Colombo and A. Corli</i>	
On the Operator Splitting Method: Nonlinear Balance Laws and a Generalization of Trotter-Kato Formulas	91
<i>M. Derridj</i>	
Subelliptic Estimates for some Systems of Complex Vector Fields	101

<i>M. Guidorzi and M. Padula</i>	
Approximate Solutions to the 2-D Unsteady Navier-Stokes System with Free Surface	109
<i>K. Kajitani</i>	
Time Decay Estimates of Solutions for Wave Equations with Variable Coefficients	121
<i>M. Nacinovich</i>	
On Weakly Pseudoconcave CR Manifolds	137
<i>C. Parenti and A. Parmeggiani</i>	
A Note on Kohn's and Christ's Examples	151
<i>K. Pileckas</i>	
On the Nonstationary Two-dimensional Navier-Stokes Problem in Domains with Strip-like Outlets to Infinity	159
<i>P.R. Popivanov</i>	
A Link between Local Solvability and Partial Analyticity of Several Classes of Degenerate Parabolic Operators	173
<i>R. Russo and C.G. Simader</i>	
The Solution of the Equation $\operatorname{div} \underline{w} = p \in L^2(\mathbb{R}^m)$ with $\underline{w} \in H_0^{1,2}(\mathbb{R}^m)^m$	185
<i>V.A. Solonnikov</i>	
On Schauder Estimates for the Evolution Generalized Stokes Problem	197
<i>D.S. Tartakoff</i>	
Local Analyticity and Nonlinear Vector Fields	207
<i>J. Vaillant</i>	
Strongly Hyperbolic Complex Systems Reduced Dimension, Hermitian Systems	217



<http://www.springer.com/978-3-7643-7450-1>

Hyperbolic Problems and Regularity Questions

Padula, M.; Zanghirati, L. (Eds.)

2007, VI, 231 p., Hardcover

ISBN: 978-3-7643-7450-1

A product of Birkhäuser Basel