

Contents

Preface	ix
<i>H. Abels</i>	
Double Obstacle Limit for a Navier-Stokes/Cahn-Hilliard System	1
<i>M. Pires and A. Sequeira</i>	
Flows of Generalized Oldroyd-B Fluids in Curved Pipes	21
<i>P. Auscher and A. Axelsson</i>	
Remarks on Maximal Regularity	45
<i>G. Bizhanova</i>	
On the Classical Solvability of Boundary Value Problems for Parabolic Equations with Incompatible Initial and Boundary Data	57
<i>D. Bothe</i>	
On the Maxwell-Stefan Approach to Multicomponent Diffusion	81
<i>T. Cieřlak and Ph. Laurençot</i>	
Global Existence vs. Blowup in a One-dimensional Smoluchowski-Poisson System	95
<i>R. Cross, A. Favini and Y. Yakubov</i>	
Perturbation Results for Multivalued Linear Operators	111
<i>W. Desch and S.-O. Londen</i>	
Semilinear Stochastic Integral Equations in L_p	131
<i>B. Ducomet and ř. Nečasová</i>	
On the Motion of Several Rigid Bodies in an Incompressible Viscous Fluid under the Influence of Selfgravitating Forces	167
<i>J. Escher, Martin Kohlmann and B. Kolev</i>	
Geometric Aspects of the Periodic μ -Degasperis-Procesi Equation ...	193
<i>R. Farwig, H. Kozono and H. Sohr</i>	
Global Leray-Hopf Weak Solutions of the Navier-Stokes Equations with Nonzero Time-dependent Boundary Values	211
<i>H.O. Fattorini</i>	
Time and Norm Optimality of Weakly Singular Controls	233

<i>G.P. Galdi and M. Kyed</i>	
Asymptotic Behavior of a Leray Solution around a Rotating Obstacle	251
<i>M. Geissert and H. Heck</i>	
A Remark on Maximal Regularity of the Stokes Equations	267
<i>D. Guidetti</i>	
On Linear Elliptic and Parabolic Problems in Nikol'skij Spaces	275
<i>P. Gwiazda and A. Świerczewska-Gwiazda</i>	
Parabolic Equations in Anisotropic Orlicz Spaces with General \mathcal{N} -functions	301
<i>R. Haller-Dintelmann and J. Rehberg</i>	
Maximal Parabolic Regularity for Divergence Operators on Distribution Spaces	313
<i>T. Hishida</i>	
On the Relation Between the Large Time Behavior of the Stokes Semigroup and the Decay of Steady Stokes Flow at Infinity	343
<i>B. Kaltenbacher, I. Lasiecka and S. Veljović</i>	
Well-posedness and Exponential Decay for the Westervelt Equation with Inhomogeneous Dirichlet Boundary Data	357
<i>N.V. Krylov</i>	
On Divergence Form Second-order PDEs with Growing Coefficients in W_p^1 Spaces without Weights	389
<i>K. Laidoune, G. Metafune, D. Pallara and A. Rhandi</i>	
Global Properties of Transition Kernels Associated with Second-order Elliptic Operators	415
<i>M. Lewicka</i>	
Metric-induced Morphogenesis and Non-Euclidean Elasticity: Scaling Laws and Thin Film Models	433
<i>A. Lunardi</i>	
Compactness and Asymptotic Behavior in Nonautonomous Linear Parabolic Equations with Unbounded Coefficients in \mathbb{R}^d	447
<i>J. Maas and J. van Neerven</i>	
Gradient Estimates and Domain Identification for Analytic Ornstein-Uhlenbeck Operators	463
<i>T. Nau and J. Saal</i>	
\mathcal{R} -sectoriality of Cylindrical Boundary Value Problems	479
<i>J. Prüss and G. Simonett</i>	
Analytic Solutions for the Two-phase Navier-Stokes Equations with Surface Tension and Gravity	507

<i>J. Prüss and M. Wilke</i>	
On Conserved Penrose-Fife Type Models	541
<i>F. Ragnedda, S. Vernier Piro and V. Vespri</i>	
The Asymptotic Profile of Solutions of a Class of Singular Parabolic Equations	577
<i>W.M. Ruess</i>	
Linearized Stability for Nonlinear Partial Differential Delay Equations	591
<i>R. Schnaubelt and M. Veraar</i>	
Stochastic Equations with Boundary Noise	609
<i>G. Seregin</i>	
A Note on Necessary Conditions for Blow-up of Energy Solutions to the Navier-Stokes Equations	631
<i>S. Shimizu</i>	
Local Solvability of Free Boundary Problems for the Two-phase Navier-Stokes Equations with Surface Tension in the Whole Space	647
<i>V.A. Solonnikov</i>	
Inversion of the Lagrange Theorem in the Problem of Stability of Rotating Viscous Incompressible Liquid	687
<i>G. Ströhmer</i>	
Questions of Stability for a Parabolic-hyperbolic System	705