

Contents

The Semigroup Approach to Conservation Laws with Discontinuous Flux	1
Boris Andreianov	
On Numerical Methods for Hyperbolic Conservation Laws and Related Equations Modelling Sedimentation of Solid-Liquid Suspensions	23
F. Betancourt, R. Bürger, R. Ruiz-Baier, H. Torres, and C.A. Vega	
SBV Regularity Results for Solutions to 1D Conservation Laws	69
Laura Caravenna	
A Generalized Buckley-Leverett System	87
Nikolai Chemetov and Wladimir Neves	
Entropy, Elasticity, and the Isometric Embedding Problem: $\mathbb{M}^3 \rightarrow \mathbb{R}^6$	95
Gui-Qiang G. Chen, Marshall Slemrod, and Dehua Wang	
Existence and Stability of Global Solutions of Shock Diffraction by Wedges for Potential Flow	113
Gui-Qiang G. Chen and Wei Xiang	
Some Wellposedness Results for the Ostrovsky–Hunter Equation	143
G.M. Coclite, L. di Ruvo, and K.H. Karlsen	
An Overview of Piston Problems in Fluid Dynamics	161
Min Ding and Yachun Li	
The Quasineutral Limit for the Navier-Stokes-Fourier-Poisson System ...	193
Donatella Donatelli and Pierangelo Marcati	
Divergence-Measure Fields on Domains with Lipschitz Boundary	207
Hermano Frid	

On Strong Local Alignment in the Kinetic Cucker-Smale Model 227
Trygve K. Karper, Antoine Mellet, and Konstantina Trivisa

Multi-dimensional Systems of Conservation Laws:
An Introductory Lecture 243
Denis Serre

**The Nash-Moser Iteration Technique with Application
to Characteristic Free-Boundary Problems 311**
Ben Stevens