

## TABLE OF CONTENTS

	<u>Page</u>	
Lattice Vortex Models and Turbulence Theory	A.J. Chorin	1
The Curve Shortening Flow	C.L. Epstein & M. Gage	15
Lax's Construction of Parametrices of Fundamental Solutions of Strongly Hyperbolic Operators. Its Prehistory and Posthistory	L. Gårding	60
The Bukiet-Jones Theory of Weak Detonation Waves in Curvilinear Geometry	J. Glimm	74
Three-Dimensional Fluid Dynamics in a Two-Dimensional Amount of Central Memory	S. Greenberg, D.M. McQueen & C.S. Peskin	85
On the Nonlinearity of Modern Shock-Capturing Schemes	A. Harten	147
High Frequency Semilinear Oscillations	J.L. Joly & J. Rauch	202
Exact Controllability and Singular Perturbations	J.L. Lions	217
Transonic Flow and Compensated Compactness	C.S. Morawetz	248
Scattering Theory for the Wave Equation on a Hyperbolic Manifold	R. Phillips	259
Determinants of Laplacians on Surfaces	P. Sarnak	277
The Small Dispersion Limit of the Korteweg-de Vries Equation	S. Venakides	295