

## CONTENTS

Foreword .....	ix
Preface .....	xi
Solitary Water-Waves in the Presence of Surface Tension .....	1
C.J. Amick and K. Kirchgässner	
Presence and Absence of Weak Singularities in Nonlinear Waves .....	23
M. Beals	
Some Dynamical Problems in Continuum Physics .....	43
M.F. Beatty	
Existence and Asymptotic Behavior for Strong Solutions of the Navier Stokes Equations in the Whole Space .....	79
H. Beirão da Veiga	
A Confluence of Experiment and Theory for Waves of Finite Strain in the Solid Continuum .....	89
J. Bell	
Interaction of Shallow-Water Waves and Bottom Topography .....	131
B. Boczar-Karakiewicz, J.L. Bona and D.L. Cohen	
Classical Piezoelectricity: Is the Theory Complete? .....	177
P. Chen	
On the Dynamics of a Collisionless Plasma .....	185
R.T. Glassey and W. Strauss	
Acoustoelasticity .....	193
J. Keller	
One Dimensional Finite Amplitude Pulse Propagation in Electroelastic Semiconductors .....	205
M. McCarthy	
Weak Solutions of Transonic Flow by Compensated Compactness .....	253
C. Synge Morawetz	
Extended Thermodynamics of Ideal Gases .....	257
I. Müller	
Phase Transitions in One Dimensional Nonlinear Viscoelasticity: Admissibility and Stability .....	277
R. Pego	

Dynamic Phase Transitions and Compensated Compactness .....	289
V. Roytburd and M. Slemrod	
Recent Advances in Nonlinear Wave Equations .....	305
J. Shatah	
Some Existence, Uniqueness, and Non-Uniqueness Results for Weakly Hyperbolic Equations in Gevrey Classes .....	311
S. Spagnolo	
Information About Other Volumes in this Program .....	323