

CONTENTS

PREFACE	v
Kiyoshi ASANO and Seiji UKAI: On the Fluid Dynamical Limit of the Boltzmann Equation	1
Hiroshi FUJII and Yuzo HOSONO: Neumann Layer Phenomena in Nonlinear Diffusion Systems	21
Tadayoshi KANO and Takaaki NISHIDA: Water Waves and Fried- richs Expansion	39
Shuichi KAWASHIMA: Global Existence and Stability of Solutions for Discrete Velocity Models of the Boltzmann Equation ...	59
Kyūya MASUDA: Blow-up of Solutions for Quasi-Linear Wave Equations in Two Space Dimensions	87
Tetsuro MIYAKAWA: A Kinetic Approximation of Entropy Solu- tions of First Order Quasilinear Equations	93
Yoshihisa MORITA: Instability of Spatially Homogeneous Periodic Solutions to Delay-Diffusion Equations	107
Shinnosuke OHARU and Tadayasu TAKAHASHI: On Some Non- linear Dispersive Systems and the Associated Nonlinear Evo- lution Operators	125
Hisashi OKAMOTO: Nonstationary or Stationary Free Boundary Problems for Perfect Fluid with Surface Tension	143
Yoshihiro SHIBATA and Yoshio TSUTSUMI: Global Existence Theorem for Nonlinear Wave Equation in Exterior Domain	155
Kazuaki TAIRA: Diffusion Processes and Partial Differential Equa- tions	197
Atusi TANI: Free Boundary Problems for the Equations of Mo- tion of General Fluids	211
Masayoshi TSUTSUMI and Nakao HAYASHI: Scattering of Solu- tions of Nonlinear Klein-Gordon Equations in Higher Space Dimensions	221