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Preface

This volume contains a record of the lectures delivered at the conference on *Evolution Equations and Nonlinear Problems*, which was held at Research Institute for Mathematical Science in Kyoto University, Kyoto, Japan, during October 23–25, 1991. The objective of the conference was to stimulate an intensive exchange of ideas with emphasis on evolution equations and related topics.

The topics covered in the proceedings are global weak solutions of the compressible Euler equation, global weak solutions of the nonstationary two-phase Stokes flow, admissibility of difference schemes to scalar conservation laws, viscosity solutions for monotone systems, abstract Besov space approach to the nonstationary Navier–Stokes equations, second order quasilinear evolution equations, nonlinear viscoelastic equations, quasi-linear elliptic equations,linearized stability for nonlinear evolution equations, global sinks for planar vector fields, monotone operators on Hilbert manifold, asymptotic behavior of solutions of quasi-linear heat equations, and parabolic variational inequality for the Cahn-Hilliard equation.

The organizer wishes to express his thanks to all the contributors to these proceedings and the participants in the meeting, because it is due to them that the conference has been successful.

Yoshikazu Kobayashi
(Niigata University)

Niigata, February 1992

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