

Contents

<i>Preface</i>	v
<i>List of Contributors</i>	vii
<i>Contents of Volume I</i>	xi
<i>Contents of Volume II</i>	xiii
<i>Contents of Volume III</i>	xv
1. Incompressible Euler Equations: The Blow-up Problem and Related Results <i>D. Chae</i>	1
2. Mathematical Methods in the Theory of Viscous Fluids <i>E. Feireisl</i>	57
3. Attractors for Dissipative Partial Differential Equations in Bounded and Unbounded Domains <i>A. Miranville, S. Zelik</i>	103
4. The Cahn–Hilliard Equation <i>A. Novick-Cohen</i>	201
5. Mathematical Analysis of Viscoelastic Fluids <i>M. Renardy</i>	229
6. Application of Monotone Type Operators to Parabolic and Functional Parabolic PDE's <i>L. Simon</i>	267
7. Recent Results on Hydrodynamic Limits <i>A.F. Vasseur</i>	323
8. Introduction to Stefan-Type Problems <i>A. Visintin</i>	377
9. The KdV Equation <i>A.-M. Wazwaz</i>	485
Author Index	569
Subject Index	585