

## Contents

<i>List of contributors</i>	<i>page</i> vii
<i>Preface</i>	xi
<b>1 Remarks on recent advances concerning boundary effects and the vanishing viscosity limit of the Navier–Stokes equations</b>	
<i>C. Bardos</i> . . . . .	1
<b>2 Time-periodic flow of a viscous liquid past a body</b>	
<i>G.P. Galdi &amp; M. Kyed</i> . . . . .	20
<b>3 The Rayleigh–Taylor instability in buoyancy-driven variable density turbulence</b>	
<i>J.D. Gibbon, P. Rao, &amp; C.P. Caulfield</i> . . . . .	50
<b>4 On localization and quantitative uniqueness for elliptic partial differential equations</b>	
<i>G. Camliyurt, I. Kukavica, &amp; F. Wang</i> . . . . .	68
<b>5 Quasi-invariance for the Navier–Stokes equations</b>	
<i>K. Ohkitani</i> . . . . .	97
<b>6 Leray’s fundamental work on the Navier–Stokes equations: a modern review of “<i>Sur le mouvement d’un liquide visqueux emplissant l’espace</i>”</b>	
<i>W.S. Ożański &amp; B.C. Pooley</i> . . . . .	113
<b>7 Stable mild Navier–Stokes solutions by iteration of linear singular Volterra integral equations</b>	
<i>R. Rautmann</i> . . . . .	204
<b>8 Energy conservation in the 3D Euler equations on <math>\mathbb{T}^2 \times \mathbb{R}_+</math></b>	
<i>J.C. Robinson, J.L. Rodrigo, &amp; J.W.D. Skipper</i> . . . . .	224

<b>9</b>	<b>Regularity of Navier–Stokes flows with bounds for the velocity gradient along streamlines and an effective pressure</b>	
	<i>C. V. Tran &amp; X. Yu</i> .....	252
<b>10</b>	<b>A direct approach to Gevrey regularity on the half-space</b>	
	<i>I. Kukavica &amp; V. Vicol</i> .....	268
<b>11</b>	<b>Weak-Strong Uniqueness in Fluid Dynamics</b>	
	<i>E. Wiedemann</i> .....	289