

Contents

<i>Senior Contributors</i>	vii
<i>Preface</i>	ix
Transition in Flow between Rotating Concentric Cylinders <i>R. C. DiPrima</i>	1
New Observations in the Taylor Experiment <i>T. Brooke Benjamin</i>	25
Transition to Turbulence in Thermal Convection with and without Rotation <i>F. H. Busse</i>	43
Instability and Turbulence in Jets <i>J. Laufer</i>	63
Instability and Transition in Pipes and Channels <i>J. T. Stuart</i>	77
On Transition to Turbulence in Boundary Layers <i>M. Gaster</i>	95
Wall Phenomena in the Final Stage of Transition to Turbulence <i>M. Nishioka, M. Asai, and S. Iida</i>	113
Subcritical Transition to Turbulence in Planar Shear Flows <i>S. A. Orszag and A. T. Patera</i>	127
Remark on Engineering Aspects of Transition <i>E. Reshotko</i>	147
Vortex Interactions and Coherent Structures in Turbulence <i>P. G. Saffman</i>	149

Interactions between Large-Scale Coherent Structures and Fine-Grained Turbulence in Free Shear Flows	167
<i>J. T. C. Liu</i>	
Coherent Structures in Turbulence	215
<i>J. L. Lumley</i>	
<i>Index</i>	243