

Contents

Anatol Roshko, 1923–2017 <i>Dimitri Papamoschou and Morteza Gharib</i>	1
David J. Benney: Nonlinear Wave and Instability Processes in Fluid Flows <i>T.R. Akylas</i>	21
Ocean Wave Interactions with Sea Ice: A Reappraisal <i>Vernon A. Squire</i>	37
Particles, Drops, and Bubbles Moving Across Sharp Interfaces and Stratified Layers <i>Jacques Magnaudet and Matthieu J. Mercier</i>	61
Convective Phenomena in Mushy Layers <i>Daniel M. Anderson and Peter Guba</i>	93
Shear Thickening of Concentrated Suspensions: Recent Developments and Relation to Other Phenomena <i>Jeffrey F. Morris</i>	121
Subglacial Plumes <i>Ian J. Hewitt</i>	145
Modeling Turbulent Flows in Porous Media <i>Brian D. Wood, Xiaoliang He, and Sourabh V. Apte</i>	171
Acoustic Tweezers for Particle and Fluid Micromanipulation <i>M. Baudoin and J.-L. Thomas</i>	205
Liquid-State Dewetting of Pulsed-Laser-Heated Nanoscale Metal Films and Other Geometries <i>Lou Kondic, Alejandro G. González, Javier A. Diez, Jason D. Fowlkes, and Philip Rack</i>	235
Capillarity in Soft Porous Solids <i>Jonghyun Ha and Ho-Young Kim</i>	263
Statics and Dynamics of Soft Wetting <i>Bruno Andreotti and Jacco H. Snoeijer</i>	285
Turbulence with Large Thermal and Compositional Density Variations <i>Daniel Livescu</i>	309

Patterns in Wall-Bounded Shear Flows <i>Laurette S. Tuckerman, Matthew Chantry, and Dwight Barkley</i>	343
Super-Resolution Imaging in Fluid Mechanics Using New Illumination Approaches <i>Minami Yoda</i>	369
Aeroacoustics of Silent Owl Flight <i>Justin W. Jaworski and N. Peake</i>	395
Immersed Methods for Fluid–Structure Interaction <i>Boyce E. Griffith and Neelesh A. Patankar</i>	421
Advances in Bioconvection <i>Martin A. Bees</i>	449
Machine Learning for Fluid Mechanics <i>Steven L. Brunton, Bernd R. Noack, and Petros Koumoutsakos</i>	477
Electroconvection near Electrochemical Interfaces: Experiments, Modeling, and Computation <i>Ali Mani and Karen May Wang</i>	509
Chemo-Hydrodynamic Patterns and Instabilities <i>A. De Wit</i>	531

Indexes

Cumulative Index of Contributing Authors, Volumes 1–52	557
Cumulative Index of Article Titles, Volumes 1–52	568