

Contents

Fluid Mechanics in Sommerfeld's School <i>Michael Eckert</i>	1
Discrete Element Method Simulations for Complex Granular Flows <i>Yu Guo and Jennifer Sinclair Curtis</i>	21
Modeling the Rheology of Polymer Melts and Solutions <i>R.G. Larson and Priyanka S. Desai</i>	47
Liquid Transfer in Printing Processes: Liquid Bridges with Moving Contact Lines <i>Satish Kumar</i>	67
Dissipation in Turbulent Flows <i>J. Christos Vassilicos</i>	95
Floating Versus Sinking <i>Dominic Vella</i>	115
Langrangian Coherent Structures <i>George Haller</i>	137
Flows Driven by Libration, Precession, and Tides <i>Michael Le Bars, David Cébron, and Patrice Le Gal</i>	163
Fountains in Industry and Nature <i>G.R. Hunt and H.C. Burridge</i>	195
Acoustic Remote Sensing <i>David R. Dowling and Karim G. Sabra</i>	221
Coalescence of Drops <i>H. Pirouz Kavehpour</i>	245
Pilot-Wave Hydrodynamics <i>John W.M. Bush</i>	269
Ignition, Liftoff, and Extinction of Gaseous Diffusion Flames <i>Amable Liñán, Marcos Vera, and Antonio L. Sánchez</i>	293
The Clinical Assessment of Intraventricular Flows <i>Javier Bermejo, Pablo Martínez-Legazpi, and Juan C. del Álamo</i>	315

Green Algae as Model Organisms for Biological Fluid Dynamics <i>Raymond E. Goldstein</i>	343
Fluid Mechanics of Blood Clot Formation <i>Aaron L. Fogelson and Keith B. Neeves</i>	377
Generation of Microbubbles with Applications to Industry and Medicine <i>Javier Rodríguez-Rodríguez, Alejandro Sevilla, Carlos Martínez-Bazán, and José Manuel Gordillo</i>	405
Beneath Our Feet: Strategies for Locomotion in Granular Media <i>A.E. Hosoi and Daniel I. Goldman</i>	431
Sports Ballistics <i>Christophe Clanet</i>	455
Dynamic Stall in Pitching Airfoils: Aerodynamic Damping and Compressibility Effects <i>Thomas C. Corke and Flint O. Thomas</i>	479
Ocean Spray <i>Fabrice Veron</i>	507
Stability of Constrained Capillary Surfaces <i>J.B. Bostwick and P.H. Steen</i>	539
Mixing and Transport in Coastal River Plumes <i>Alexander R. Horner-Devine, Robert D. Hetland, and Daniel G. MacDonald</i>	569

Indexes

Cumulative Index of Contributing Authors, Volumes 1–47	595
Cumulative Index of Article Titles, Volumes 1–47	605

Errata

An online log of corrections to *Annual Review of Fluid Mechanics* articles may be found at <http://www.annualreviews.org/errata/fluid>