

JOURNAL OF RHEOLOGY®



Editor: John F. Brady

Associate Editor for Business: A. Jeffrey Giacomin

Editorial Board:

Ralph H. Colby	Ronald G. Larson	Dimitris Vlassopoulos
Masao Doi	L. Gary Leal	Norman J. Wagner
Jae Chun Hyun	Gareth H. McKinley	Lynn M. Walker
Bamin Khomami	Thomas C. B. McLeish	David A. Weitz
Andrew M. Kraynik	Jan Vermant	

Transactions of The Society of Rheology

Rheology of dense-phase vibrated powders and molecular analogies <i>Ph. Marchal, N. Smirani, and L. Choplin</i>	1
Rheology of poly(sodium acrylate) hydrogels during cross-linking with and without cellulose microfibrils <i>M. Harini and Abhijit P. Deshpande</i>	31
Modeling fiber interactions in semiconcentrated fiber suspensions <i>J. Férec, G. Ausias, M. C. Heuzey, and P. J. Carreau</i>	49
Shear banding or not in entangled DNA solutions depending on the level of entanglement <i>Pouyan E. Boukany and Shi-Qing Wang</i>	73
Shear flow induced microstructure of a synthetic mesophase pitch <i>Santanu Kundu, Dana Grecov, Amod A. Ogale, and Alejandro D. Rey</i>	85
Magnetorheology of fiber suspensions. I. Experimental <i>Modesto T. López-López, Pavel Kuzhir, and Georges Bossis</i>	115
Magnetorheology of fiber suspensions. II. Theory <i>Pavel Kuzhir, Modesto T. López-López, and Georges Bossis</i>	127
Constitutive modeling for moderate deformations of slightly compressible rubber <i>Cornelius O. Horgan and Jeremiah G. Murphy</i>	153
Practical application of thixotropic suspension models <i>Anne M. Grillet, Rekha R. Rao, Douglas B. Adolf, Stacie Kawaguchi, and Lisa A. Mondy</i>	169
Rheological behavior of oligomeric ionomers <i>R. A. Weiss and Hongying Zhao</i>	191
General stress decomposition in nonlinear oscillatory shear flow <i>Wei Yu, Peng Wang, and Chixing Zhou</i>	215