

Current Rapid Communications

Rapid Communications in Physical Review are short reports of important new work which are of sufficient interest to be given priority handling in the publication process. The following papers have been accepted for publication as Rapid Communications and appear as indicated in the designated Physical Review issues.

Physical Review E, Vol. 58, August 1998, Issue 2

Finite-size effects on critical diffusion and relaxation towards metastable equilibrium	W. Koch and V. Dohm	R1179
Percolation thresholds in chemical disordered excitable media		
..... I. Sendiña-Nadal, D. Roncaglia, D. Vives, V. Pérez-Muñuzuri, M. Gómez-Gesteira, V. Pérez-Villar,		
..... J. Echave, J. Casademunt, L. Ramírez-Piscina, and F. Saqués		R1183
Determination of dynamical critical exponents from hysteresis scaling	G.P. Zheng and J.X. Zhang	R1187
Has chaos implied by macrovariable equations been justified?	Qianshu Li and Hongli Wang	R1191
Statistics of S -matrix poles for chaotic systems with broken time reversal invariance: A conjecture		
..... Yan V. Fyodorov, Mikhail Titov, and Hans-Jürgen Sommers		R1195
Systematic drift experienced by a point vortex in two-dimensional turbulence	Pierre-Henri Chavanis	R1199
Gradient clogging in depth filtration	Somalee Datta and S. Redner	R1203
High-resolution heat-capacity studies of the hexatic- B -smectic- F phase transition in liquid-crystal compounds		
..... P.M. Johnson, C.C. Huang, E. Gorecka, and D. Pocięcha		R1207
Liquid-crystal-anchoring transitions at surfaces created by polymerization-induced phase separation		
..... Karl R. Amundson and Mohan Srinivasarao		R1211
Smectic- A Fréedericksz transition	Steve J. Elston	R1215
Subharmonic motion of particles in a vibrating tube	Jysoo Lee	R1218
Topological effects on statics and dynamics of knotted polymers		
..... Yu-Jane Sheng, Pik-Yin Lai, and Heng-Kwong Tsao		R1222
Relaxation dynamics in ultrathin polymer films		
..... J.A. Forrest, C. Svanberg, K. Révész, M. Rodahl, L.M. Torell, and B. Kasemo		R1226
Real time observation on deformation of bicontinuous phase under simple shear flow		
..... Feng Qiu, Jiandong Ding, and Yuliang Yang		R1230
Enormous stress response of anisotropic solution of poly(γ -benzyl-L-glutamate) to sinusoidal electric fields with low frequencies unexplained by the electrohydrodynamic instability		
..... Katsufumi Tanaka, Akio Takahashi, and Ryuichi Akiyama		R1234
Viscoelasticity of tightly entangled solutions of semiflexible polymers	David C. Morse	R1237
Dynamic shear modulus of a semiflexible polymer network	F. Gittes and F.C. MacKintosh	R1241
Magnetically induced optical transparency of overdense plasmas due to ultrafast ionization		
..... D. Teychenné, A. Giulietti, D. Giulietti, and L.A. Gizzi		R1245
Interaction of femtosecond laser pulses with ultrathin foils	A. Forsman, A. Ng, G. Chiu, and R.M. More	R1248
Instabilities of higher-order parametric solitons: Filamentation versus coalescence		
..... Dmitry V. Skryabin and William J. Firth		R1252
Breathing self-similar dynamics and oscillatory tails of the chirped dispersion-managed soliton	Sergei K. Turitsyn	R1256