

CONTENTS - *Continued*

PHYSICAL REVIEW E

THIRD SERIES, VOLUME 56, NUMBER 1

JULY 1997

Soft-mode suppression in the phase separation of binary polymer mixtures driven by a reversible chemical reaction	R59
Qui Tran-Cong, Takashi Ohta, and Osamu Urakawa	
Adsorption of fluids in confined disordered media from inhomogeneous replica Ornstein-Zernike equations	R63
Orest Pizio and Stefan Sokolowski	
Relation between the phase separation and the crystallization in protein solutions	R67
Shinpei Tanaka, Masahiko Yamamoto, Kohzo Ito, Reinosuke Hayakawa, and Mitsuo Ataka	
Collisional radiative model for heavy atoms in hot non-local-thermodynamical-equilibrium plasmas	R70
A. Bar-Shalom, J. Oreg, and M. Klapisch	
Vibrational modes in the dust-plasma crystal	R74
S. V. Vladimirov, P. V. Shevchenko, and N. F. Cramer	

ARTICLES

General methods of statistical physics

Soluble phase field model	77
Umberto Marini Bettolo Marconi, Andrea Crisanti, and Giulia Iori	
Numerical crisis found in the fixed step integration of a photoconductor model	88
Alicia Serfaty de Markus	
Damage spreading in the Ising model	94
Haye Hinrichsen and Eytan Domany	
Globally and randomly coupled Ginzburg-Landau maps	99
Satoki Uchiyama and Hirokazu Fujisaka	
Lévy dusts, Mittag-Leffler statistics, mass fractal lacunarity, and perceived dimension	112
Raphael Blumenfeld and Benoit B. Mandelbrot	
Fluctuation properties of strength function phenomena: A model study	119
Hirokazu Aiba, Shoujirou Mizutori, and Toru Suzuki	
Universality for interacting oriented self-avoiding walk: A transfer matrix calculation	131
A. Trovato and F. Seno	
Modified effective-field approach to low-dimensional spin-1/2 systems	144
G. Kamieniarz, R. Dekeyser, G. Musiał, L. Dębski, and M. Bieliński	
Wound-up phase turbulence in the complex Ginzburg-Landau equation	151
R. Montagne, E. Hernández-García, A. Amengual, and M. San Miguel	
Control of chaos in conservative flows	168
Liu Zonghua and Chen Shigang	
Renormalization group calculation of distribution functions: Structural properties for percolation clusters	172
J.-P. Hovi and Amnon Aharony	
Self-replicating spots in reaction-diffusion systems	185
William N. Reynolds, Silvina Ponce-Dawson, and John E. Pearson	
Correlation dimension of intermittent signals	199
Rainer Hegger, Holger Kantz, and Eckehard Olbrich	
Karhunen-Loeve mode control of chaos in a reaction-diffusion process	204
Ioana Triandaf and Ira B. Schwartz	
Curvature tensor of a statistical manifold associated with a correlated-walk model	213
Tsunehiro Obata, Hiroshi Oshima, and Hiroaki Hara	
Structure functions in the stochastic Burgers equation	227
F. Hayot and C. Jayaprakash	
Universality classes for rice-pile models	231
Luís A. Nunes Amaral and Kent Bækgaard Lauritsen	
Parameter sensitivity of noisy chaotic time series	235
Elmer S. Hung	

(Continued)