

PHYSICAL REVIEW E

For editorial and subscription correspondence,
please see inside front cover
(ISSN: 1063-651X)

PERIODICALS

Postmaster send address changes to:
American Institute of Physics
500 Sunnyside Boulevard
Woodbury, NY 11797-2999

THIRD SERIES, VOLUME 56, NUMBER 2

CONTENTS

AUGUST 1997

RAPID COMMUNICATIONS

Surface effects in invasion percolation	R1291
Raffaele Cafiero, Guido Caldarelli, and Andrea Gabrielli	
Geometric magnetism in classical transport theory	R1295
Jochen Rau	
Distribution function analysis of the structure of depleted particle configurations	R1299
Paul R. Van Tassel, Julian Talbot, Pascal Viot, and Gilles Tarjus	
High-Reynolds-number thermal turbulence in mercury	R1302
A. Naert, T. Segawa, and M. Sano	
Sources and sinks separating domains of left- and right-traveling waves: Experiment versus amplitude equations	R1306
Roberto Alvarez, Martin van Hecke, and Wim van Saarloos	
Surface-induced ordering in ionic and surfacted magnetic fluids	R1310
C. Y. Matuo, A. Bourdon, A. Bee, and A. M. Figueiredo Neto	
Elasticity of entangled polymer loops: Olympic gels	R1314
Thomas A. Vilgis and Matthias Otto	
Two-dimensional polymers with random short-range interactions	R1318
Ido Golding and Yacov Kantor	
Optical nonlinearity enhancement via geometric anisotropy	R1322
K. P. Yuen, M. F. Law, K. W. Yu, and Ping Sheng	
Solution of the master equation for the Bak-Sneppen model of biological evolution in a finite ecosystem	R1326
Yu. M. Pis'mak	
Elastohydrodynamic study of actin filaments using fluorescence microscopy	R1330
D. Riveline, C. H. Wiggins, R. E. Goldstein, and A. Ott	
Linear time-delay feedback control of a pathological rhythm in a cardiac conduction model	R1334
Michael E. Brandt, Hue-Teh Shih, and Guanrong Chen	
Field distributions in the crossover from ballistic to diffusive wave propagation	R1338
A. A. Chabanov and A. Z. Genack	

ARTICLES

General methods of statistical physics

Families of graphs with chromatic zeros lying on circles	1342
Robert Shrock and Shan-Ho Tsai	
Earthquake statistics and fractal faults	1346
R. Hallgass, V. Loreto, O. Mazzella, G. Paladin, and L. Pietronero	
Statistical mechanics of the random K -satisfiability model	1357
Rémi Monasson and Riccardo Zecchina	
Critical dynamics of nonperiodic Ising chains	1371
Peiqing Tong	
Theory of continuum percolation. III. Low-density expansion	1379
Alon Drory, Brian Berkowitz, Giorgio Parisi, and I. Balberg	
Global investigation of the influence of the phase of subharmonic excitation of a driven system	1396
Didier Dangoisse, Jean-Christophe Celet, and Pierre Glorieux	

(Continued)



1063-651X(199708)56:2;1-I