

CONTENTS - Continued

PHYSICAL REVIEW E

THIRD SERIES, VOLUME 55, NUMBER 2

FEBRUARY 1997

Power law dependence found on the lifetime of a photoconductor chaotic transient numerically induced by a fixed-step algorithm	1342
Alicia Serfaty de Markus	
Critical behavior of the square-well fluid with $\lambda = 2$: A finite-size-scaling study	1347
Enrique de Miguel	
Dissipative quantum systems with a potential barrier. III. Steady state nonequilibrium flux and reaction rate	1355
Joachim Ankerhold and Hermann Grabert	
Solitons in a uniaxial anisotropic Heisenberg spin chain with Gilbert damping in an external magnetic field	1375
Wu-Ming Liu, Xiao-Bing Wang, Fu-Cho Pu, and Nian-Ning Huang	
Territory covered by N Lévy flights on d -dimensional lattices	1395
G. Berkolaiko and S. Havlin	
Burgers' flows as Markovian diffusion processes	1401
Piotr Garbaczewski, Grzegorz Kondrat, and Robert Olkiewicz	
Irregular and fractal resonators with Neumann boundary conditions: Density of states and localization	1413
S. Russ, B. Sapoval, and O. Haeblerlé	
Unified model for the study of diffusion localization and dissipation	1422
Doron Cohen	
Solvable aggregation-annihilation processes with greater than two components	1442
Ligen Zhang and Z. R. Yang	
Damage spreading in the q -state Potts model	1448
Marta F. de A. Bibiano, F. G. Brady Moreira, and A. M. Mariz	
Quantum instability of the flux lines in the coherent state representation	1451
Gonzalo García de Polavieja and Mark S. Child	
Brézin-Zee dynamical correlator: An S -matrix Brownian motion approach	1457
A. M. S. Macêdo	
Synchronization, chaos, and the breakdown of collective domain oscillations in reaction-diffusion systems	1463
C. B. Muratov	
Theory of stochastic resonance in signal transmission by static nonlinear systems	1478
François Chapeau-Blondeau and Xavier Godivier	
Time mapping in power series expansions for the time evolution operator	1496
A. N. Drozdov	
Fractal dimension of collision cascades	1508
F. Kun and G. Bardos	
Percolation thresholds and universal formulas	1514
S. C. van der Marck	
Equivalence of ideal gases in two dimensions and Landen's relations	1518
M. Howard Lee	
Brownian dynamics simulation of the prehistory problem	1521
M. Morillo, J. M. Casado, and J. Gómez-Ordóñez	
Dynamical exponent of rough surface with quenched noise	1525
Junzhong Yang and Gang Hu	
Classical fluids	
Propagation and structure of planar streamer fronts	1530
Ute Ebert, Wim van Saarloos, and Christiane Caroli	
Binary collision contribution to the longitudinal current correlation function of dense fluids	1550
Rajneesh K. Sharma, K. Tankeshwar, K. N. Pathak, S. Ranganathan, and R. E. Johnson	
Microstructure functions for a model of statistically inhomogeneous random media	1558
J. Quintanilla and S. Torquato	

(Continued)