General methods of statistical physics

Long-range correlations in permeability fluctuations in porous rock 3129
Hernán A. Makse, Glenn W. Davies, Shlomo Havlin, Plamen Ch. Ivanov, Peter R. King, and H. Eugene Stanley

Dynamical effects of partial orderings in physical systems 3135
A. S. Landsberg and Eric J. Friedman

Higher-order finite-element distributions in statistical theory of nuclear spectra 3142
Maciej M. Duras and Krzysztof Sokalski

Effect of chaotic noise on multistable systems 3149
Tsuyoshi Hondou and Yasuji Sawada

Defects in self-organized criticality: A directed coupled map lattice model 3157
Bosiljka Tadić and Ramakrishna Ramaswamy

Motion of a driven tracer particle in a one-dimensional symmetric lattice gas 3165
S. F. Burlatsky, G. Oshanin, M. Moreau, and W. P. Reinhardt

Escape over a fluctuating barrier: Limits of small and large correlation times 3173
Jan Iwaniszewski

Braids on the Poincaré section: A laser example 3185
Hernán G. Solari, Mario A. Natiello, and Mariano Vázquez

One-dimensional map lattices: Synchronization, bifurcations, and chaotic structures 3196
Vladimir N. Belykh and Erik Mosekilde

Control of chaos in noisy flows 3204
Steven R. Bishop and Daolin Xu

Global scaling behaviors and chaotic measure characterized by the convergent rates of period-p-tupling bifurcations 3211
Shou-Li Peng and Ke-Fei Cao

Transition from localized to extended eigenstates in the ensemble of power-law random banded matrices 3221
Alexander D. Mirlin, Yan V. Fyodorov, Frank-Michael Dittes, Javier Quezada, and Thomas H. Seligman

Strange nonchaotic attractors in autonomous and periodically driven systems 3231
V. S. Anishchenko, T. E. Vadivasova, and O. Sosnovtseva

Coherent-ordered transition in chaotic globally coupled maps 3235
Fagen Xie and Hilda A. Cerdeira

Low-dimensional phase-locked states in the Zakharov equations 3239
G. I. de Oliveira, L. P. L. de Oliveira, and F. B. Rizzato

Integral relaxation time of single-domain ferromagnetic particles 3250
D. A. Garanin

Kinetics of phase ordering in the two-dimensional coupled XY-Ising model 3257
Jong-Rim Lee, Sung Jong Lee, Bongsoo Kim, and Iksoo Chang

Regular and irregular features of classical motion described by a quadrupole boson Hamiltonian 3264
V. Baran, A. A. Raduta, and D. S. Delion

Kinetic equations for a nonideal quantum system 3274
Th. Bornath, D. Kremp, W. D. Kraeft, and M. Schlanges

Different types of chaos synchronization in two coupled piecewise linear maps 3285
Yuri Maistrenko and Tomasz Kapitaniak

Nearest-neighbor-spacing distribution of a system with many degrees of freedom, some regular and some chaotic .....