PHYSICAL REVIEW E **THIRD SERIES, VOLUME 61, NUMBER 3** **MARCH 2000**

Lattice model for cold and warm swelling of polymers in water R2208
Pierpaolo Bruscolini and Lapo Casetti

Biological physics

Simulated coevolution in a mutating ecology R2212
J. S. Sá Martins
Scale-invariant fluctuations at different levels of organization in developing heart cell networks R2216
Yoav Soen and Erez Braun

Plasma physics

Ponderomotive acceleration of electrons at the focus of high intensity lasers R2220
Wei Yu, M. Y. Yu, J. X. Ma, Z. M. Sheng, J. Zhang, H. Daido, S. B. Liu, Z. Z. Xu, and R. X. Li
Emission of MeV multiple-charged ions from metallic foils irradiated with an ultrashort laser pulse R2224
A. Zhidkov, A. Sasaki, and T. Tajima

Classical physics, including nonlinear media

Model for urban and indoor cellular propagation using percolation theory R2228
G. Franceschetti, S. Marano, N. Pasquino, and I. M. Pinto

ARTICLES

General methods of statistical physics

Tricritical points in the Sherrington-Kirkpatrick model in the presence of discrete random fields 2232
João M. de Araújo, Fernando D. Nobre, and Francisco A. da Costa
Self-similar domain growth, localized structures, and labyrinthine patterns in vectorial Kerr resonators 2241
Rafa Gallego, Maxi San Miguel, and Raúl Toral
Closed-loop phase equilibria of a symmetrical associating mixture of square-well molecules examined by Gibbs ensemble Monte Carlo simulation 2245
Lowri A. Davies, George Jackson, and Luis F. Rull
Depinning of kinks in a Josephson-junction ratchet array 2257
E. Trías, J. J. Mazo, F. Falo, and T. P. Orlando
Sliding blocks with random friction and absorbing random walks 2267
A. R. Lima, C. F. Moukarzel, I. Grosse, and T. J. P. Penna
General response function for interacting quantum liquids 2272
Klaus Morawetz and Uwe Fuhrmann
Thermodynamics of fractal spectra: Cantor sets and quasiperiodic sequences 2281
P. Carpena, A. V. Coronado, and P. Bernaola-Galván
Second virial coefficient for the Landau diamagnetism of a two-component plasma 2290
M. Steinberg, W. Ebeling, and J. Ortner
Exact results for a fully asymmetric exclusion process with sequential dynamics and open boundaries 2300
Jordan Brankov, Nina Pesheva, and Nikola Valkov
Hopping motion of lattice gases through nonsymmetric potentials under strong bias conditions 2319
K. W. Kehr and Z. Koza
Statistical mechanics of random two-player games 2327
J. Berg
Number of distinct sites visited by *N* random walkers on a Euclidean lattice 2340
S. B. Yuste and L. Acedo
Steady-state cracks in viscoelastic lattice models. II 2348
David A. Kessler

(Continued)