PHYSICAL REVIEW E **THIRD SERIES, VOLUME 64, NUMBER 1** **JULY 2001**

Block copolymer micelle coronas as quasi-two-dimensional dilute or semidilute polymer solutions *(4 pages)* . . . . . 010802(R)
Carsten Svaneborg and Jan Skov Pedersen

Interfacial and topological measurements of bicontinuous polymer morphologies *(4 pages)* . . . . . 010803(R)
Hiroshi Jinnai, Takashi Kajihara, Hideyuki Watashiba, Yukihiro Nishikawa, and Richard J. Spontak

Biological physics

Composite membrane deformation on the mesoscopic length scale *(4 pages)* . . . . . 010901(R)
Michael F. Brown, Robin L. Thurmond, Steven W. Dodd, Dörte Otten, and Klaus Beyer

Estimating Lyapunov exponents in biomedical time series *(4 pages)* . . . . . 010902(R)
Raphaël Porcher and Guy Thomas

REGULAR ARTICLES

Statistical physics of soft matter

Solvable multispecies reaction-diffusion processes *(6 pages)* 011101
Farinaz Roshani and Mohammad Khorrami

Directed particle diffusion under ''burnt bridges'' conditions *(4 pages)* 011102
J. Mai, I. M. Sokolov, and A. Blumen

Sticky spheres, entropy barriers, and nonequilibrium phase transitions *(5 pages)* 011103
S. L. Narasimhan, P. S. R. Krishna, and K. P. N. Murthy

Specific heat of multifractal energy spectra *(7 pages)* 011104
L. R. da Silva, R. O. Vallejos, C. Tsallis, R. S. Mendes, and S. Roux

Speed of reaction-transport processes *(4 pages)* 011105
Vicenç Méndez and Joaquim Fort

Spatially periodic stochastic system with infinite globally coupled oscillators *(8 pages)* 011106
Jing-hui Li and Peter Hänggi

Canonical and noncanonical equilibrium distribution *(13 pages)* 011107
Mario Annunziato, Paolo Grigolini, and Bruce J. West

Master-slave synchronization in chaotic discrete-time oscillators *(9 pages)* 011108
J. Schwarz, A. Klotz, K. Bräuer, and A. Stevens

Glass transition in protein hydration water *(5 pages)* 011109
Michel Peyrard

Integrated random processes exhibiting long tails, finite moments, and power-law spectra *(11 pages)* 011110
Jaume Masoliver, Miquel Montero, and Alan McKane

Exact $T=0$ partition functions for Potts antiferromagnets on sections of the simple cubic lattice *(12 pages)* . . 011111
Jesús Salas and Robert Shrock

Microscopic approach for the site distribution and thermodynamic properties of a single-component polymer subjected to an external field *(12 pages)* 011112
Shiqi Zhou and Xiaoqi Zhang

Transport of particles for a spatially periodic stochastic system with correlated noises *(6 pages)* 011113
Jing-hui Li, Jerzy Łuczka, and Peter Hänggi

Effect of trends on detrended fluctuation analysis *(19 pages)* 011114
Kun Hu, Plamen Ch. Ivanov, Zhi Chen, Pedro Carpena, and H. Eugene Stanley

Dissipation in Laplacian fields across irregular boundaries *(10 pages)* 011115
K. Karamanos, G. Nicolis, T. Massart, and P. Bouillard

(Continued)