

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
Suite 1NO1
2 Huntington Quadrangle
Melville, NY 11747-4502

THIRD SERIES, VOLUME 61, NUMBER 3

CONTENTS

MARCH 2000

RAPID COMMUNICATIONS

General methods of statistical physics

- Particle systems with stochastic passing R2163
I. Ispolatov and P. L. Krapivsky
- Scaling behavior of the Abelian sandpile model R2168
Barbara Drossel
- Dynamics of a harmonic oscillator on the Bethe lattice R2172
Jangil Kim and Isao Sawada

Chaos and nonlinear dynamical systems

- Dual synchronization of chaos R2176
Yun Liu and Peter Davis
- Trace formula for products of diagonal matrix elements in chaotic systems R2180
Sanjay Hortikar and Mark Srednicki
- Oscillations and chaos in catalytic reactions on the nm scale R2184
V. P. Zhdanov and B. Kasemo

Classical fluids

- Freezing transition of a strongly dipolar simple fluid R2188
G. T. Gao and X. C. Zeng

Liquid crystals

- Temperature variation of film tension measured by a vibrating membrane tensiometer R2192
M. Veum, C. Pettersen, P. Mach, P. A. Crowell, and C. C. Huang

Complex fluids, polymers, and granular materials

- Measuring the rotational viscosity of ferrofluids without shear flow R2196
J. Embs, H. W. Müller, C. Wagner, K. Knorr, and M. Lücke
- Ordering of viscous liquid mixtures under a steady shear flow R2200
Zhenyu Shou and Amitabha Chakrabarti
- Measurement of aqueous foam rheology by acoustic levitation R2204
J. Gregory McDaniel and R. Glynn Holt

