

# 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  
500 Sunnyside Boulevard  
Woodbury, NY 11797-2999

---

THIRD SERIES, VOLUME 56, NUMBER 5

CONTENTS

NOVEMBER 1997

---

*The Table of Contents is a total listing of Parts A and B.  
Part A consists of pages 4907–5548, and Part B pages 5549–6224.*

### PART A

Note to Reader ..... i

#### General methods of statistical physics

- Stochastic resonance at higher harmonics in monostable systems ..... R4907  
A. N. Grigorenko, S. I. Nikitin, and G. V. Roschepkin
- Quantum versus classical decay laws in open chaotic systems ..... R4911  
Dmitry V. Savin and Valentin V. Sokolov
- Sandpile model with activity inhibition ..... R4914  
S. S. Manna and D. Giri
- Anomalous scaling in the Bak-Chen-Tang forest fire model ..... R4918  
Hans-Martin Bröker and Peter Grassberger
- Specific heat anomalies associated with Cantor-set energy spectra ..... R4922  
Constantino Tsallis, Luciano R. da Silva, Renio S. Mendes, Raúl O. Vallejos, and Ananias M. Mariz

#### Classical fluids

- Derivation of amplitude equations by the renormalization group method ..... R4926  
Ken-ichi Matsuba and Kazuhiro Nozaki
- Transverse structure functions in high-Reynolds-number turbulence ..... R4928  
Brindesh Dhruva, Yoshiyuki Tsuji, and Katepalli R. Sreenivasan
- Complete and exact solutions of a class of nonlinear diffusion equations and problem of velocity selection ..... R4931  
X. Y. Wang, S. Fan, and T. Kyu

#### Liquid crystals

- Chiral symmetry breaking in three-dimensional smectic-C liquid-crystal domains ..... R4935  
P. A. Pramod, Yashodhan Hatwalne, and N. V. Madhusudana

#### Complex fluids, diffusion-limited aggregation, and dendritic growth

- Effects of electric charges on hydrophobic forces ..... R4939  
D. Bulone, V. Martorana, P. L. San Biagio, and M. B. Palma-Vittorelli
- Finite thermal conductivity at the vapor-liquid critical line of a binary fluid mixture ..... R4943  
E. P. Sakonidou, H. R. van den Berg, C. A. ten Seldam, and J. V. Sengers

#### Plasma physics

- Effect of electron-ion equilibration on optical emission from a shock wave ..... R4947  
G. Chiu, A. Ng, and A. Forsman

#### Classical physics, including nonlinear media

- Enhanced power breathing soliton in communication systems with dispersion management ..... R4951  
Elena G. Shapiro and Sergei K. Turitsyn
- Phonon scattering by localized equilibria of nonlinear nearest-neighbor chains ..... R4955  
S. Kim, C. Baesens, and R. S. MacKay
- Symmetry-breaking instabilities of spatial parametric solitons ..... R4959  
Alfredo De Rossi, Stefano Trillo, Alexander V. Buryak, and Yuri S. Kivshar



(Continued)

1063-651X(199711)56:5:B;1-R