

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 59, NUMBER 2
PARTS A AND B

CONTENTS

FEBRUARY 1999

*The Table of Contents is a total listing of Parts A and B.
Part A consists of pages R1287–1886, and Part B pages 1887–2492.*

PART A

Note to Reader i

RAPID COMMUNICATIONS

General methods of statistical physics

- Bounds for the time to failure of hierarchical systems of fracture R1287
J. B. Gómez, M. Vázquez-Prada, Y. Moreno, and A. F. Pacheco
- Noninstantaneous collisions and two concepts of quasiparticles R1291
Pavel Lipavský, Václav Špička, and Klaus Morawetz
- Numerical signs for a transition in the two-dimensional random field Ising model at $T=0$ R1295
Carlos Frontera and Eduard Vives
- Time scale separation and heterogeneous off-equilibrium dynamics in spin models over random graphs R1299
A. Barrat and R. Zecchina
- Dynamics of defect formation R1303
Esteban Moro and Grant Lythe
- Synchronization and maximum Lyapunov exponents of cellular automata R1307
Franco Bagnoli and Raúl Rechtman
- Self-organization of traffic jams in cities: Effects of stochastic dynamics and signal periods R1311
Debashish Chowdhury and Andreas Schadschneider

Chaos and nonlinear dynamical systems

- Models of intermediate spectral statistics R1315
E. B. Bogomolny, U. Gerland, and C. Schmit

Classical fluids

- Linear and nonlinear refraction and Bragg scattering of water waves R1319
Y. Agnon

Liquid crystals

- Critical behavior of birefringence in the smectic-A phase of chiral smectic liquid crystals R1323
M. Skarabot, K. Kočevár, R. Blinc, G. Heppke, and I. Muševič

Complex fluids, polymers, and granular materials

- Hexagons and interfaces in a vibrated granular layer R1327
I. S. Aranson, L. S. Tsimring, and V. M. Vinokur

