

PHYSICAL REVIEW E

STATISTICAL, NONLINEAR, AND SOFT MATTER PHYSICS

Soft Matter and Biological Physics

Editor
IRWIN OPPENHEIM
 (Massachusetts Institute of Technology)

Associate Editors
GERALD HEDSTROM
 (Lawrence Livermore National Laboratory)

BRANT M. JOHNSON
 (Brookhaven National Laboratory)

RANDALL D. KAMIEN
 (University of Pennsylvania)

YURI KIVSHAR
 (Australian National University)

MARGARET MALLOY
 (APS Editorial Office)

ANTONIO POLITI
 (Istituto Nazionale di Ottica Applicata)

DANIEL ROTHMAN
 (Massachusetts Institute of Technology)

Assistant Editors
MARGARET FOSTER
VALERIE L. MILLER
JOANNA POPADIUK

Senior Editorial Assistant
JILL M. GARGANO

APS Editorial Office
 1 Research Road, Box 9000
 Ridge, NY 11961-9000
 Phone: (631) 591-4050
 Fax: (631) 591-4141
 Email: pre@aps.org
 Web: <http://publish.aps.org/>
 Submissions: pretex@aps.org or
<http://publish.aps.org/ESUB/>

EDITORIAL BOARD

Term ending 31 December 2001

A. AHARONY	Critical Phenomena, Percolation
A. ALBANO	Statistical Physics, Chaos
D. CHANDLER	Chemical Physics
J. R. DORFMAN	Statistical Physics
J. KRUG	Statistical Physics
P. MANNEVILLE	Nonlinear Physics, Hydrodynamics
G. PARISI	Statistical Physics
C. REBBI	Computational Physics
W. B. RUSSEL	Complex Fluids, Fluid Dynamics
J. SOMMERER	Experimental Chaos
H. SOMPOLINSKY	Disordered Systems, Spin Glasses, Neural Networks
R. TEMKIN	Beam Physics

Term ending 31 December 2002

N. ABRAHAM	Solitons
J. CARY	Plasmas
H. FRAUENFELDER	Biological Physics
A. PIKOVSKY	Nonlinear Physics
R. PINDAK	Liquid Crystals
S. J. SCHIFF	Biological Physics
K. R. SREENIVASAN	Nonlinear Dynamics, Fluid Dynamics, Turbulence
N. G. VAN KAMPEN	Statistical Mechanics

Term ending 31 December 2003

B. ECKHARDT	Classical Chaos, Quantum Chaos
D. GRIFFITHS	Electrodynamics
E. J. HINCH	Fluid Dynamics
A. LIU	Complex Fluids, Polymers
T. LUBENSKY	Liquid Crystals, Complex Fluids
S. NAGEL	Glass Transitions, Granular Materials
T. ROSER	Beam Physics
D. WEITZ	Complex Fluids, Biological Physics

The American Physical Society
 One Physics Ellipse
 College Park, MD 20740-3844

<i>President</i>	GEORGE H. TRILLING
<i>President-Elect</i>	WILLIAM F. BRINKMAN
<i>Vice-President</i>	MYRIAM P. SARACHIK
<i>Editor-in-Chief</i>	MARTIN BLUME
<i>Treasurer and Publisher</i>	THOMAS J. MCILRATH
<i>Executive Officer</i>	JUDY R. FRANZ

Member Subscriptions:

APS Membership Department
 One Physics Ellipse
 College Park, MD 20740-3844
 Phone: (301) 209-3280
 Fax: (301) 209-0867
 Email: membership@aps.org

Nonmember Subscriptions:

APS Subscription Services
 Suite 1NO1
 2 Huntington Quadrangle
 Melville, NY 11747-4502
 Phone: (516) 576-2270, (800) 344-6902
 Fax: (516) 349-9704
 Email: subs@aps.org

Production and distribution by

American Institute of Physics
 Suite 1NO1
 2 Huntington Quadrangle
 Melville, NY 11747-4502
 Phone: (516) 576-2200
 Fax: (516) 576-2643
 Email: pre@aip.org

Manuscripts may be submitted electronically if in appropriate format (see <http://publish.aps.org/ESUB/> or inquire at pretex@aps.org). Alternatively, send four copies to the Editorial Office. Submission is a representation that the manuscript has not been published previously and is not currently under consideration for publication elsewhere. A signed **APS copyright-transfer** form (effective only on acceptance for publication) must be provided; the form is available on our Web server and appears at the end of the 11 December 2000 issue of *Physical Review Letters*. Information for contributors may be found on our Web server or in the January and July issues.

To help defray editorial and production expenses, authors of published articles are requested to pay a **publication charge** of \$90 per article plus \$90 per journal page. Publication charges are not requested for properly prepared electronic submissions. Acceptable formats are REVTeX (preferred), LaTeX, Harvmac, Plain TeX; PostScript figures. **Reprints** are offered for sale to authors.

For information about **subscription prices** and about the **online version** of the journal, see our Web server, or inquire at assocpub@aps.org. **Member** inquiries regarding **subscriptions**, renewals, address changes, missing or damaged copies, microfilm, and single-copy orders should be addressed to the APS Membership Department. **Nonmembers** should address subscription inquiries to APS Subscription Services. For address changes please send both old and new addresses, and, if possible, include an address stencil imprint from the mailing wrapper of a recent issue; allow six weeks advance notice.

Copyright 2001 by The American Physical Society

Permission to quote excerpts or to reprint any figures or tables should be obtained directly from an author. The American Physical Society for its part hereby grants permission to quote excerpts and reprint figures and/or tables from its journals with acknowledgment of the sources. **Individual** teachers, students, researchers, and libraries in nonprofit institutions acting for them are permitted to make hard copies of articles for use in teaching or research, provided such copies are not sold. **Copying of articles for sale** by document delivery services or suppliers, or beyond the free copying allowed above, is permitted against payment of a copying fee. The current copying fee is \$20.00, per article, per copy. Express permission of APS is not required, except for purposes stated below, provided that the fee is paid through the Copyright Clearance Center, Inc. (CCC), 222 Rosewood Drive, Danvers, MA 01923. Contact the CCC for information on how to report copying and remit payments. **Reproduction** in a reprint collection, or for advertising or promotional purposes, or republication in any form requires permission of one of the authors and a license from APS. Such a license must be sought from Barbara Hicks, Associate Publisher, The American Physical Society, One Physics Ellipse, College Park, MD 20740-3844. Permission from the author must be sought and obtained from him or her directly.

Physical Review E (ISSN: 1063-651X; CODEN PLEEE8; printed in USA) is published monthly (on the 1st of each month) by The American Physical Society through the American Institute of Physics.

POSTMASTER: Send address changes to Physical Review E, APS Subscription Services, Suite 1NO1, 2 Huntington Quadrangle, Melville, NY 11747-4502. The 2001 print + online subscription price is \$1775 Academic Base; \$1935 Carnegie Doctoral/Equivalent; \$2095 Carnegie Research/Equivalent/Corporate & Government. Periodicals postage rates are paid at Huntington Station, NY, and additional mailing offices.