

PHYSICAL REVIEW E

STATISTICAL, NONLINEAR, AND SOFT MATTER PHYSICS

Editor

GARY S. GREST
(Sandia National Laboratories)

Managing Editor

MARGARET MALLOY
(APS Editorial Office)

Associate Editors

MARC BARTHÉLEMY
(CEA-Centre d'Etudes de Bruyeres-le-Chatel)

DIRK JAN BUKMAN

(APS Editorial Office)

RONALD DICKMAN

(Universidade Federal de Minas Gerais)

BURKHARD DUENWEG

(Max-Planck-Institut fuer Polymerforschung)

BRUNO ECKHARDT

(Philipps-Universität Marburg)

BRANT M. JOHNSON

(Brookhaven National Laboratory)

JOHN F. MARKO

(Northwestern University)

JULIAN D. MAYNARD

(Pennsylvania State University)

ANTONIO POLITI

(CNR-Istituto dei Sistemi Complessi)

JONATHAN SELINGER

(Kent State University)

Senior Assistant Editor

MARGARET FOSTER

Assistant Editors

JILL M. GARGANO

JOYCE MASTERSON

VALERIE L. MILLER

THOMAS PATTARD

JOANNA POPADIUK

Senior Editorial Assistant

TERRE ARENA

Editorial Assistant

LIN ZHANG

EDITORIAL BOARD

Term ending 31 December 2008

H. CHATÉ	Nonlinear and Statistical Physics
G. B. ERMENTROUT	Computational Neuroscience
P. HÄNGGI	Statistical and Stochastic Physics
T. W. JOHNSTON	Plasma Physics
A. R. KERSTEIN	Turbulence
O. LAVRENTOVICH	Liquid Crystals
F. LEDERER	Photonics, Nonlinear Optics
D. LOHSE	Turbulence
E. MARX	Classical and Quantum Physics
M. WORTIS	Biological and Statistical Physics

Term ending 31 December 2009

R. ALBERT	Interdisciplinary Physics
D. BONN	Fluid Mechanics
I. GOLDBIRSHCH	Granular Materials, Statistical Mechanics
R. HOLYST	Liquid Crystals, Complex Fluids
P. D. OLMSTED	Complex Fluids
H. SCHIESSEL	Polymer Physics, Biological Physics
B. SCHMITTMANN	Statistical Physics
G. STELL	Statistical Physics
G. C. L. WONG	Biological Physics
G. ZASLAVSKY	Chaos, Fractional Dynamics

Term ending 31 December 2010

G. AHLERS	Critical Phenomena, Turbulence
I. ARANSON	Granular Systems, Pattern Formation
A. ARENAS	Complex Systems
A. BARRAT	Statistical Physics, Glasses
R. BUNDSCHUH	Biopolymers
G. CASATI	Quantum Chaos, Classical Chaos
D. DHAR	Statistical Physics
B. DROSSEL	Complex Systems
A. J. C. LADD	Computational Physics
M. MARSILI	Statistical Physics, Econophysics
M. G. ROSENBLUM	Dynamical Physics
O. SCHILLING	Fluid Mechanics, Turbulence

American Physical Society

Officers

<i>President</i>	ARTHUR BIENENSTOCK
<i>President-Elect</i>	CHERRY A. MURRAY
<i>Vice-President</i>	CURTIS G. CALLAN
<i>Editor-in-Chief</i>	GENE D. SPROUSE
<i>Treasurer and Publisher</i>	JOSEPH W. SERENE
<i>Executive Officer</i>	JUDY R. FRANZ

One Physics Ellipse
College Park, MD 20740-3844

APS Editorial Office

Directors

<i>Editorial</i>	DANIEL T. KULP
<i>Journal Information Systems</i>	ROBERT A. KELLY
<i>Journal Operations</i>	CHRISTINE M. GIACCONE

1 Research Road
Ridge, NY 11961-2701
Phone: (631) 591-4050 Fax: (631) 591-4141
Email: pre@aps.org
Web: <http://publish.aps.org/>
Submissions: pretext@aps.org or
<http://authors.aps.org/ESUB/>

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

Institutional Subscriptions:

APS Subscription Services

Suite 1N01
2 Huntington Quadrangle
Melville, NY 11747-4502
Toll free: (800) 344-6902
Phone: (516) 576-2270 Fax: (516) 349-9704
Email: subs@aps.org

Manuscripts should be **submitted** electronically in acceptable format (see <http://authors.aps.org/ESUB/> or inquire at pretext@aps.org). If this is not possible, send one copy 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. Authors should provide indexing codes according to the PACS scheme (available at <http://publish.aps.org/PACS/>). An executed **APS copyright-transfer** form must be provided (effective only on acceptance for publication); the form is available via our Web submission server and via <http://authors.aps.org/>. 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 articles which are not submitted in acceptable electronic format are expected to pay a **publication charge** of \$130 plus \$130 per journal page. Acceptable formats are REV_TEX (preferred), L^AT_EX, plain T_EX; MS Word; PostScript figures (preferred). **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, and single-copy orders should be addressed to the APS Membership Department. **Institutional subscribers** should address subscription inquiries to APS Subscription Services. For address changes please send both old and new addresses, and if possible, send the mailing label from a recent issue.

Copyright © 2008 by The American Physical Society. All rights reserved.

Physical Review E™ is a trademark of The American Physical Society.

Rights and Permissions: See <http://forms.aps.org/author/copyfaq.html>.

Copying: No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the written permission of the publisher, except as stated below. Single copies of individual articles may be made for private use or research. Authorization is given to copy articles beyond the use permitted by Sections 107 and 108 of the U.S. Copyright Law, provided the copying fee of \$25.00 per copy per article is paid to the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, USA.

Reproduction of an entire Article in a reprint collection, or for advertising or promotional purposes, or republication in any form requires permission from APS. Permission must be sought from the Associate Publisher, The American Physical Society, One Physics Ellipse, College Park, MD 20740-3844; email: assocpub@aps.org.

Other Use: Permission is granted to quote from the journal with the customary acknowledgment of the source. Permission must be sought from the APS Associate Publisher to reproduce a figure, table, or excerpt of an Article. Authorization for private use or research does not extend to systematic or multiple reproduction, to copying for promotional purposes, to distribution in any format, or to republication in any form. In all such cases, specific permission from APS must be obtained.

Physical Review E [ISSN: 1539-3755 (print), 1550-2376 (online); CODEN PLEEE8; printed in USA] is published monthly by The American Physical Society, 1 Research Road, Ridge, NY 11961-2701.

POSTMASTER: Send address changes to Physical Review E, APS Subscription Services, Suite 1N01, 2 Huntington Quadrangle, Melville, NY 11747-4502. The 2008 print + online base price is \$2955. Periodicals postage rates are paid at Huntington Station, NY, and additional mailing offices.