Ergodic theory and dynamical systems

Edited by Michael Herman, Anatole Katok, Klaus Schmidt and Peter Walters

This new journal provides a focus for a rapidly developing area of mathematics. The ideas of dynamics have proved of great importance not only in specific areas of mathematics, but also in physics and other allied subjects.

Critical survey and conference proceedings are included from time to time, as well as reviews of relevant books.

Volume 1: March, June, September and December 1981

£45.00/\$135.00 per year

Single parts: £12.50/\$37.00

CAMBRIDGE UNIVERSITY PRESS

JOURNAL OF PLASMA PHYSICS

Volume 26 Part 1 August 1981

CONTENTS

Studies of strong laboratory double layers and comparison with computer simulation	
K. D. BAKER, N. SINGH, L. P. BLOCK, R. KIST, W. KAMPA AND H. THIEMANN	page 1
The theory of ionizing shock waves in a magnetic field. Part 1. Skew and oblique shock waves, boundary conditions and ionization stability. M. A. LIBERMAN AND A. L. VELIKOVICH	29
The theory of ionizing shock waves in a magnetic field. Part 2. Transverse, normal and switch-off shock waves and the piston problem.	20
M. A. LIBERMAN AND A. L. VELIKOVICH	55
The effect of electron temperature anisotropy on the propagation of whistler waves	
T. NAMIKAWA, H. HAMABATA AND K. TANABE	83
Propagation of hydromagnetic waves through a collisionless, heat-conducting plasma	
T. NAMIKAWA AND H. HAMABATA	95
Spontaneous excitation of magnetic fields and collapse dynamics in a Langmuir plasma	
M. KONO, M. M. ŠKORIĆ AND D. TER HAAR	123
Influence of relaxation processes on the structure of a thermal boundary layer in partially ionized argon	
M. E. H. VAN DONGEN, R. B. VAN P. VAN ECK, H. J. L. HAGEBEUK, A. HIRSCHBERG, A. C. B. HUTTEN-MANSFELD),
H. J. JAGER AND J. F. H. WILLEMS	147
Eigenmode analysis of resistive MHD stability by matrix shooting J. P. FREIDBERG AND D. W. HEWETT	177

© Cambridge University Press 1981

CAMBRIDGE UNIVERSITY PRESS

THE PITT BUILDING, TRUMPINGTON STREET, CAMBRIDGE CB2 1RP 32 EAST 57TH STREET, NEW YORK, N.Y. 10022

Printed in Great Britain at the University Press, Cambridge