

JOURNAL OF PLASMA PHYSICS

Volume 33 Part 1 February 1985

CONTENTS

Dispersion surfaces MATS ANDRÉ	<i>page 1</i>
On the self-modulation of whistler waves propagating along the external magnetic field G. MANN	21
Nonlinear evolution of double layers and electron vortices in an unstable plasma diode SATORU IIZUKA AND HIROSHI TANACA	29
Oscillation-centre fluid theory of the ponderomotive force G. W. KENTWELL AND D. A. JONES	43
Solitary surface waves on a magnetized plasma cylinder O. M. GRADOV, L. STENFLO AND D. SÜNDER	53
Period doubling of azimuthal oscillations on a non-neutral magnetized electron column R. W. BOSWELL AND M. J. GILES	59
A study of plasma expansion phenomena in laboratory generated plasma wakes: preliminary results K. H. WRIGHT, N. H. STONE AND U. SAMIR	71
Switched-on evolution due to a temporal electron charge drifting subthermally through a warm collisional plasma LIM CHEE-SENG	83
Nonlinear propagation and localization of intense electromagnetic waves in relativistic plasmas U. A. MOFIZ AND U. DE ANGELIS	107
Effects of positive potential in the catastrophe theory study of the point model for bumpy tori ALKESH PUNJABI AND GEORGE VAHALA	119
Nonlinear interaction of the surface waves at a narrow inhomogeneous layer of the magnetoactive plasma A. M. HUSSEIN	151

© Cambridge University Press 1985

CAMBRIDGE UNIVERSITY PRESS

THE PITT BUILDING, TRUMPINGTON STREET, CAMBRIDGE CB2 1 RP
 32 EAST 57TH STREET, NEW YORK, NY 10022, USA
 10 STAMFORD ROAD, OAKLEIGH, MELBOURNE 3166, AUSTRALIA

Printed in Great Britain by the University Press, Cambridge