

JOURNAL OF PLASMA PHYSICS

Volume 36 Part 1 August 1986

CONTENTS

The intrinsic electromagnetic solitary vortices in magnetized plasma JIXING LIU AND WENDELL HORTON	page 1
On the formation of periodic and solitary whistler envelopes G. MANN	25
Stimulated Raman scattering from a fully focused relativistic electron beam in a waveguide ROBERT A. SCHILL, JR AND S. R. SESHADRI	37
Kinematic and temperature restrictions on the electron cyclotron maser instability P. A. ROBINSON	63
Criteria governing ion-acoustic waves in two-ion plasmas I. M. A. GLEDHILL AND M. A. HELLBERG	75
Three-wave coupling coefficient in a drifting bi-Maxwellian plasma RACHELLE BERGMANN	97
Nonlinear Landau damping of purely perpendicular Bernstein modes SPILIOS RIYOPoulos	111
A macroscopic interpretation of Landau damping V. V. SUBRAMANIAM AND W. F. HUGHES	127
Self-interaction of compressional hydromagnetic waves in a cylindrical plasma-filled waveguide B. GHOSH AND K. P. DAS	135
Nonlinear surface waves on a thin plasma layer I. ZHELYAZKOV, T. VODENICHAROVA AND M. Y. YU	143

© Cambridge University Press 1986

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