

# JOURNAL OF PLASMA PHYSICS

Volume 8 Part 1 August 1972

## CONTENTS

Reformulation of quasi-linear theory A. N. KAUFMAN	<i>page</i> 1
X-ray fine structure of dense plasma in a co-axial accelerator W. H. BOSTICK, V. NARDI and W. PRIOR	7
Current sheath studies in a co-axial plasma focus gun S. P. CHOW, S. LEE and B. C. TAN	21
The velocity of a wave packet in an anisotropic absorbing medium K. SUCHY	33
Ray tracing in an anisotropic absorbing medium K. SUCHY	53
Diffusion controlled breakdown of gases in a rectangular micro-wave cavity D. C. MALDONADO and I. L. AYALA	67
Hydromagnetic flow about a curved neutral sheet M. TESKE and S. H. LAM	77
Ergodic behaviour of nonlinear hydromagnetic waves in a cold collisionless plasma Y. INOUE and N. KIMURA	97
On the stability of nonlinear cold plasma waves E. INFELD	105
REVIEW <i>Shock waves in collisionless plasmas, by D. A. Tidman and N. A. Krall</i>	111

© Cambridge University Press, 1972

**CAMBRIDGE UNIVERSITY PRESS**

BENTLEY HOUSE, 200 EUSTON ROAD, LONDON NW1 2DB  
AMERICAN BRANCH: 32 EAST 57TH STREET, NEW YORK, N.Y. 10022

*Annual subscription* £24.00 net in U.K. (\$75.00 in U.S.A.)

*Printed in Great Britain at the University Printing House, Cambridge*