

JOURNAL OF PLASMA PHYSICS

Vol. 2 Part 1 February 1968

CONTENTS

On the A.C. electrical conductivity of a Lorentz gas J. H. M. FU and R. S. B. ONG	page 1
On the propagation of cylindrical waves in a magnetized self-gravitating collisionless plasma G. MATTEI	9
Transport coefficients of partially ionized helium R. S. DEVOTO and C. P. LI	17
On the kinetic theory of stable and weakly unstable plasma. Part 1 A. REGISTER and C. OBERMAN	33
Time-dependent motions of the cavity formed when a uniform corpuscular flux is incident on the magnetic field of a line current R. C. HEWSON-BROWNE and D. N. BURGHESS	51
On gyroresonance M. J. LAIRD	59
Skin-depth effect of a cylindrical shock-produced plasma T. O. ARO and D. WALSH	65
Surface waves of a magnetoactive plasma K. JUNGWIRTH and V. A. PETRŽÍLKA	73
A note on the two-stream instability P. C. CLEMMOW	85
The origin of the plasma in an electromagnetic shock-tube D. G. FEARN	93
REVIEWS	102

CAMBRIDGE UNIVERSITY PRESS

BENTLEY HOUSE, P.O. BOX 92, 200 EUSTON ROAD, LONDON, N.W.1
AMERICAN BRANCH: 32 EAST 57TH STREET, NEW YORK, N.Y. 10022

Subscription per volume of four parts £7 in U.K. (\$24.50 in U.S.A.)
Single parts £2. 10s. (\$8.50)

Printed in Great Britain at the University Printing House, Cambridge