Continued from back cover

| The expansion of a plasma from a spherical source into a vacuum. Part 2. Partially-ionized flow | |
|---|-----|
| JUDITH GOLDFINCH | 153 |
| Stability of a plasma stream in a magnetic field A. LAMONT, J. C. TAYLOR and E. W. LAING | 169 |
| Electrostatic oscillations in cold inhomogeneous plasma. Part 2. Integral equation approach z. Sedláček | 187 |
| The effect of impurity ions on the stability of drift waves R. S. B. ONG and M. Y. YU | 201 |
| Construction of electron distribution functions from laser scattering spectra J. H. WILLIAMSON and M. E. CLARKE | 211 |
| A note on the formation of Debye potential well in current- carrying plasmas J. R. KAN | 223 |
| Electrostatic shielding of a test charge in a non-neutral plasma R. C. DAVIDSON | 229 |
| | |

JOURNAL OF PLASMA PHYSICS

Vol. 6 Part 1 August 1971

CONTENTS

| field Analysis of electromagnetic instabilities parallel to the magnetic | |
|---|--------|
| w. PILIPP and н. J. völк | page 1 |
| Transonic plasma flow past an obstacle P. C. STANGEBY and J. E. ALLEN | 19 |
| Radiation from charged particles in weakly inhomogeneous magnetic fields | |
| DAVID M. COOK | . 38 |
| Lagrangian approach to non-linear wave interactions in a warm plasma | |
| J. J. GALLOWAY and H. KIM | 53 |
| Resistive instability in a uniformly rotating magnetoplasma | |
| A. D. LUNN | 73 |
| Finite-Larmor-radius equations for collisionless plasmas in general magnetic fields | |
| E. BOWERS | 87 |
| Collision integral between particles of disparate mass | |
| C. LO SURDO | 107 |
| On the equations for non-linear wave solutions of the Vlasov and Poisson equations | |
| R. J. GRIBBEN | 119 |
| Ideally conducting magnetostatic equilibria and associated time dependent, resistive flows | |
| JOHN C. STEVENSON | 125 |
| The expansion of a plasma from a spherical source into a vacuum. Part 1. Fully-ionized flow | |
| JUDITH GOLDFINCH and D. C. PACK | 137 |

Continued on inside back cover

© Cambridge University Press 1971

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