

JOURNAL OF PLASMA PHYSICS

Volume 42 Part 1 August 1989

CONTENTS

On the dependence of the efficiency of lower-hybrid current drive on the wave spectrum ALDO NOCENTINI	<i>page</i> 1
The acceleration of cometary ions by Alfvén waves PETER DUFFY	13
Alfvén-wave heating in resistive MHD STEEFAAN POEDTS, WOLFGANG KERNER AND MARCEL GOOSSENS	27
A catastrophe-theory study of a two-chamber model for a tokamak scrape-off and divertor ALKESH PUNJABI	59
MHD surface waves in high- and low-beta plasmas. Part 1. Normal-mode solutions Z. E. MUSIELAK AND S. T. SUESS	75
Numerical investigation of a plasma beam entering transverse magnetic fields J. KOGA, J. L. GEARY, T. FUJINAMI, B. S. NEWBERGER, T. TAJIMA AND N. ROSTOKER	91
Compressible models of fast steady-state magnetic reconnection M. JARDINE AND E. R. PRIEST	111
Numerical determination of the ambipolar electric field in a stellarator-reactor plasma W. D. D'HAESELEER, W. N. G. HITCHON AND J. L. SHOJET	133
Waves in a cold plasma with spatially periodic sheared fields D. A. DIVER, E. W. LAING AND C. C. SELLAR	153
The dispersion relation and the dielectric tensor of inhomogeneous magnetized plasmas R. A. CALDELA FO, R. S. SCHNEIDER AND L. F. ZIEBELL	165
Effects of non-uniformities on electrical conduction in weakly ionized plasmas M. NUMANO, Y. MURAKAMI AND T. NITTA	177
Three-wave interaction between transverse and longitudinal waves G. BRODIN AND L. STENFLO	187

© Cambridge University Press 1989

CAMBRIDGE UNIVERSITY PRESS

THE PITT BUILDING, TRUMPINGTON STREET, CAMBRIDGE CB2 1RP

40 WEST 20TH STREET, NEW YORK, NY 10011, USA

10 STAMFORD ROAD, OAKLBIGH, MELBOURNE 3166, AUSTRALIA

Printed in Great Britain by the University Press, Cambridge