

VOLUME 55 · PART 1 · FEBRUARY 1996

JPLPBZ 55 (Pt 1) 1–144 (1996) 0022–3778

---

# JOURNAL OF PLASMA PHYSICS



**CAMBRIDGE**  
UNIVERSITY PRESS

## EDITORS

PROFESSOR R A CAIRNS, *School of Mathematical and Computational Sciences, University of St. Andrews, St. Andrews KY16 9SS, Fife, Scotland, jpp@st-andrews.ac.uk*

PROFESSOR GEORGE H MILEY, *Fusion Studies Laboratory, University of Illinois, 103 S Goodwin Avenue, Urbana IL 61801, USA, g-miley@uiuc.edu*

## ASSOCIATE EDITORS

DR ROBERT L BINGHAM, *Space Science Department, Rutherford Appleton Laboratory, Chilton, Didcot, Oxfordshire OX11 0QX, England, rbi@vk.rl.ac.uk*

DR MARCO BRAMBILLA, *Max-Planck-Institut für Plasmaphysik, Postfach 1533, D-85740 Garching, Germany, mab@ipp-garching.mpg.de*

DR JOHN P DOUGHERTY, *Department of Applied Mathematics and Theoretical Physics, University of Cambridge, Silver Street, Cambridge CB3 9EW, England, jpd2@damtp.cam.ac.uk*

PROFESSOR ERYK INFELD, *Soltan Institute, Hoza 69, PL-00681 Warsaw, Poland, Eryk.Infeld@fuw.edu.pl*

PROFESSOR P K KAW, *Institute for Plasma Research, Bhat, Gandhinagar 382 424, Gujarat, India, Kaw@plasma.ernet.in*

PROFESSOR D B MELROSE, *Research Centre for Theoretical Astrophysics, School of Physics, The University of Sydney, Sydney NSW 2006, Australia, melrose@physics.su.oz.au*

PROFESSOR EDWARD C MORSE, *Nuclear Engineering Department, University of California Berkeley, Berkeley CA 94720, USA, Morse@nuc.berkeley.edu*

DR RICHARD A NEBEL, *T-15, Los Alamos National Laboratory, MS K717, Los Alamos NM 87545, USA, rick@ctrss2.lanl.gov*

PROFESSOR G J PERT, F.R.S., *Department of Physics, University of York, Heslington, York YO1 5DD, England, gjp1@redeyes.york.ac.uk*

DR PADMA K SHUKLA, *Institut für Theoretische Physik IV, Ruhr-Universität Bochum, D-44780 Bochum, Germany, ps@tp4.ruhr-uni-bochum.de*

DR GARY P ZANK, *Bartol Research Institute, University of Delaware, Newark DE 19716-4793, USA, zank@bartol.bartol.udel.edu*

---

JOURNAL OF PLASMA PHYSICS (ISSN 0022-3778) is published once every two months in February, April, June, August, October and December, by Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge CB2 2RU and Cambridge University Press, Journals Department, 40 West 20th Street, New York, NY 10011-4211.

Three parts form a volume. The subscription price (excluding VAT, but includes postage) of Volumes 55 and 56 (1996) is £324.00 (US \$610.00 in the USA, Canada and Mexico) for institutions; £199.00 (US \$380.00) for individuals. Single parts cost £59.00 each (US \$110.00 in the USA, Canada and Mexico) plus postage. All orders must be accompanied by payment.

EU subscribers (outside the UK) who are not registered for VAT should add VAT at their country's rate. VAT registered subscribers should provide their VAT registration number.

Japanese prices for institutions (including ASP delivery) are available from Kinokuniya Company Ltd, P.O. Box 55, Chitose, Tokyo 156, Japan.

Copies of the journal for subscribers in the USA, Canada and Mexico are sent by air to New York to arrive with minimum delay. Second class postage paid at New York, NY, and at additional mailing offices. *POSTMASTER*: send address changes in USA, Canada and Mexico to *Journal of Plasma Physics*, Cambridge University Press, 110 Midland Avenue, Port Chester, New York, NY 10573-4930.

Information on *Journal of Plasma Physics* and all other Cambridge journals is available on <http://www.cup.cam.ac.uk/> and in North America on <http://www.cup.org/>.