

Applied Mathematics

European Journal of

VOLUME 6 · PART 6 · DECEMBER 1995

CAMBRIDGE UNIVERSITY PRESS

EDITORS-IN-CHIEF

DR J. R. OCKENDON, DR S. D. HOWISON

Mathematical Institute, University of Oxford, 24-29 St Giles, Oxford, OX1 3LB, UK
EJAM@VAX.OX.AC.UK FAX +44 1865 270515

EDITORS

PROF. A. FRIEDMAN

Institute for Mathematics and Applications, University of Minnesota, Minneapolis, MN 55455-0436, USA
FRIEDMAN%CSFSA.CS.UMN.EDU
@UMN-CS.CS.UMN.EDU

PROF. L. PELETIER

Universiteit Leiden, Department of Mathematics, Niels Bohrweg 1, Postbus 9512, NL-2300 RA Leiden, The Netherlands
PELETIER@RULCRI.LEIDENUNIV.NL

PROF. M. PRIMICERIO

Università degli Studi, Istituto Matematico U. Dini, Viale Morgagni 67/a, 50134 Firenze, Italy
FISMAT@IFIIDG.FI.CNR.IT

ASSOCIATE EDITORS

PROF. G. I. BARENBLATT

DAMTP, University of Cambridge, Silver Street, Cambridge CB3 9EW

PROF. M. CHIPOT

Université de Metz, Département de Mathématiques, Ile du Saulcy, 57045 Metz Cédex 01, France
CHIPOT@ARCTURUS.CIRIL.FR

PROF. D. G. CRIGHTON

DAMTP, University of Cambridge, Silver Street, Cambridge CB3 9EW

PROF. A. DAMLAMIAN

Ecole Polytechnique, Centre de Mathématiques, Route de Saclay, 91128 Palaiseau, France
MATDAMLA@EARN.FRPOLY11

PROF. C. M. ELLIOTT

Mathematics Subject Group, University of Sussex, Falmer, Brighton BN1 9QH
MMFC@SYMA.SUSSEX.AC.UK

PROF. V. M. ENTOV

Laboratory of Applied Continuum Mechanics, Institute for Problems in Science, 117526 Moscow, Russia
ENTOV@IPM.MSK.SU

PROF. J. HARPER

Department of Mathematics, Victoria University of Wellington, PO Box 600, Wellington, New Zealand
JOHN.HARPER@VUW.AC.NZ

DR. A. K. HEAD

Division of Materials Science and Technology, CSIRO, Private Bag 33, Rosebank MDC, Clayton, Victoria 3169, Australia
HEAD@RIVETT.MST.CSIRO.AU

PROF. K.-H. HOFFMANN

Lehrstuhl für Angewandte Mathematik, Institut für Angewandte Mathematik und Statistik, TU München, Dachauerstr 9a, D-80335 München, Germany
HOFFMANN@APPL-MATH-TU-MUENCHEN.DE

PROF. N. KENMOCHI

Department of Mathematics, Faculty of Education, Chiba University, Yayoi-cho 1-33, Chiba-shi 260, Japan

PROF. LI TATSUEN

Department of Mathematics, Fudan University, Shanghai, China

PROF. S. LUCKHAUS

Institut für Angewandte Mathematik, Universität Bonn, Wegelerstrasse 6, 5300 Bonn, Germany
SFB256@DBNRHRZ1.BITNET

PROF. B. J. MATKOWSKY

Department of Engineering Sciences and Applied Mathematics, The Technological Institute, Northwestern University, Evanston, Illinois 60201, USA
MAT@MAT.ESAM.NWU.EDU

PROF. V. V. PUKHNACHOV

Lavrentyev Institute of Hydrodynamics, Siberian Division of the Russian Academy of Sciences, Novosibirsk 630090, Russia
PUKH@HYDRO.NSK.SU

PROF. D. G. SCHAEFFER

Department of Mathematics, Duke University, Durham, North Carolina 27706, USA

PROF. J. R. WILLIS

Department of Applied Mathematics and Theoretical Physics, University of Cambridge, Silver Street, Cambridge CB3 9EW
J.R.WILLIS@AMTP.CAM.AC.UK

© CAMBRIDGE UNIVERSITY PRESS 1995

SUBSCRIPTIONS

European Journal of Applied Mathematics (ISSN 0956-7925) is published bimonthly in February, April, June, August, October and December. The subscription price (excluding VAT) of Volume 6, 1995, is £124 net (USA, Canada and Mexico US \$224) post free; single parts cost £23 net (USA, Canada and Mexico US \$41) plus postage. Six parts form a volume. 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. Orders, which must be accompanied by payment, may be sent to any bookseller, subscription agent or to the publisher: Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge CB2 2RU, or in the USA, Canada and Mexico to Cambridge University Press, Journals Department, 40 West 20th Street, New York, NY 10011-4211, USA. 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. Japanese prices for institutions (including ASP delivery) are available from Kinokuniya Company Ltd, P.O. Box 55, Chitose, Tokyo 156, Japan.

POSTMASTER: send address changes in USA, Canada and Mexico to *European Journal of Applied Mathematics*, Cambridge University Press, 110 Midland Avenue, Port Chester, New York, NY 10573-4930, USA.

Claims for missing issues should be made immediately on receipt of the subsequent issue. Copies of back numbers are available from Cambridge University Press.