

*European Journal of*

VOLUME 6 · PART 4 · AUGUST 1995

CAMBRIDGE UNIVERSITY PRESS

Applied  
Mathematics

## 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. J. HARPER

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

## PROF. S. LUCKHAUS

Institut für Angewandte Mathematik,  
 Universität Bonn, Wegelerstrasse 6,  
 5300 Bonn, Germany  
 SFB256@DBNHRZR1.BITNET

## PROF. M. CHIPOT

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

## 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. 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. D. G. CRIGHTON

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

## 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. V. V. PUKHNAČHOV

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

## 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  
 MMFC8@SYMA.SUSSEX.AC.UK

## PROF. N. KENMOCHI

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

## PROF. D. G. SCHAEFFER

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

## PROF. V. M. ENTOV

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

## PROF. LI TATSSEN

Department of Mathematics,  
 Fudan University, Shanghai, China

## 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.