

EUROPEAN JOURNAL OF MECHANICS

B/FLUIDS

An official medium of publication for EUROMECH – ‘European Mechanics Society’

The manuscripts should be sent to one of the Editors-in-Chief

Editors-in-Chief: F. DIAS

Institut Non Linéaire de Nice
1361, route des Lucioles
06560 Valbonne, France
Tel.: + 33 4 92 96 73 07 Fax: + 33 4 93 65 25 17
dias@inln.cnrs.fr

G. J. F. VAN HEIJST

Eindhoven University of Technology
Department of Physics
Fluid Dynamics Laboratory
P.O. Box 513
NL-5600 MB Eindhoven, The Netherlands
Tel.: + 31 40 24 72 722 Fax: + 31 40 24 64 151
ejmb-fluids@fdl.phys.tue.nl

Associate Editors

I. P. CASTRO
University of Surrey
Department of Mechanical Engineering
Guildford, Surrey GU2 5XH, UK
i.castro@surrey.ac.uk

P. LUCHINI
Dipartimento di Ingegneria Aerospaziale
Politecnico di Milano
Via Golgi 40
20133 Milano, Italy
luchini@aero.polimi.it

L. G. REDEKOPP
University of Southern California
Department of Aerospace Engineering
Los Angeles, CA 90089, USA
reddekopp@spock.usc.edu

Advisory board

- T. AKYLAS *Cambridge (USA)*
G. I. BARENBLATT *Berkeley (USA)*
D. BARTHÉS-BIESEL *Compiègne (France)*
F. H. BUSSE *Bayreuth (Germany)*
C. CERCIGNANI *Milano (Italy)*
H. I. ENE *Bucharest (Romania)*
H. H. FERNHOLZ *Berlin (Germany)*
R. FRIEDRICH *München (Germany)*
- G. P. GALDI *Ferrara (Italy)*
P. GERMAIN *Paris (France)*
P. HUERRE *Paris (France)*
G. IOOSS *Nice (France)*
J. JIMENEZ *Madrid (Spain)*
A. V. JOHANSSON *Stockholm (Sweden)*
Y. S. KACHANOV *Novosibirsk (Russia)*
L. KLEISER *Zürich (Switzerland)*
- E. KRAUSE *Aachen (Germany)*
H. K. MOFFATT *Cambridge (UK)*
P. A. MONKEWITZ *Lausanne (Switzerland)*
R. MOREAU *Saint-Martin d'Hères (France)*
G. OOMS *Rijswijk (The Netherlands)*
F. T. SMITH *London (UK)*
J. SOMMÉRIA *Lyon (France)*
S. ZALESKI *Paris (France)*

The European Journal of Mechanics is abstracted and/or indexed in:

Applied Mechanics Reviews, Current Contents (PC & ES), Mechanics Contents, Mathematical Reviews, Inspec Science Abstracts, Pascal Database, Current Mathematical Publications, Math Sci., Current Contents (EC & T), Science Citation Index, Sci Search, Research Alert, Materials Science Citation Index, Zentralblatt Für Mathematik.



**ÉDITIONS
ELSEVIER**

23, rue Linois
75724 Paris cedex 15, France
<http://www.elsevier.fr>

A member of Elsevier Science
Éditions scientifiques et médicales Elsevier
SAS au capital de 80 250 000 F - 399 113 877 RCS Paris

HARD SCIENCES DEPARTMENT

Tel.: 33 1 45 58 90 67 Fax: 33 1 45 58 94 21
Desk editor: Christine Gray Tel.: +33 1 45 58 98 63, c.gray@elsevier.fr
Advertising: Fabrice Martinez Tel.: +33 1 45 58 98 25, f.martinez@elsevier.fr
<http://www.elsevier.fr>

SUBSCRIPTIONS Tel.: +33 1 45 58 90 67 Fax: +33 1 45 58 94 24

Subscription information 1999 – *EJM-B/Fluids* – Vol 18 – 6 issues – ISSN 0997-7546

	France	EU*	South America	North, Central and Rest of the world
EJM-B	☐ FF 2 551	☐ FF 2 605	☐ US\$ 530	☐ FF 3 139
EJM-A	☐ FF 2 944	☐ FF 3 005	☐ US\$ 592	☐ FF 3 506
EJM-A + EJM-B	☐ FF 4 946	☐ FF 5 048	☐ US\$ 1 010	☐ FF 5 981

* Customers resident in the EU (European Union) are liable for VAT (2.1%). For tax exemption, VAT registration number must be indicated.
Special rates apply for Euromech members, please contact your society. All prices include air delivery

Address order and payment to: Éditions scientifiques et médicales Elsevier, 23, rue Linois, 75724 Paris cedex 15, France
• by cheque or credit card (CB, EuroCard, MasterCard or Visa) indicate number and expiration date
• by transfer: CCP Paris n° 30041 00001 1904540 H 020/70

Subscriptions begin 4 weeks after receipt of payment and start with the first issue of the calendar year. Back issues and volumes are available from the publisher. Claims for missing issues should be made within 6 months of publication.

© 1999 Éditions scientifiques et médicales Elsevier, Paris

En application de la loi du 1^{er} juillet 1992, il est interdit de reproduire, même partiellement, la présente publication sans l'autorisation de l'éditeur ou du Centre français d'exploitation du droit de copie (20, rue des Grands-Augustins, 75006 Paris).

All rights reserved. No part of this publication may be translated, reproduced, stored in a retrieval system or transmitted in any form or by any other means, electronic, mechanical, photocopying, recording or otherwise, without prior permission of the publisher.

Imprimé en France par STEDI
1, bd Ney, F-75018 Paris
Dépôt légal : 5793 – À parution

Président-directeur général et directeur de la publication : Catherine Lucet
Commission paritaire n° 0603 T 71133
Périodicité : 6 nos / an