

# COMPTES RENDUS MECANIQUE

Editorial board: Académie des sciences, 23, quai de Conti, 75006 Paris, France

Tel.: (+33) (0)1 44 41 43 69. Fax: (+33) (0)1 44 41 43 74.

comptes-rendus@academie-sciences.fr

<http://www.academie-sciences.fr>

**Objective of the journal:** the *Comptes rendus Mécanique* are open to all scientists, whatever their position or nationality. Through a policy of rapid publication of original work, the journal is a highly advantageous means of making advances in fundamental research known to the international scientific community. Such communication is achieved in the form of original notes which describe briefly a significant result. Longer *Concise Review Papers* are also to be published.

**Editorial director:** Jean Dercourt.

**Editors-in-chief:** É. Sanchez-Palencia.

**Associate editors:** S. Candel, Ph.G. Ciarlet, P. Huerre, H. Petryk, P. Ponte Castañeda, E. Van der Giessen, M.G. Velarde, A. Zaoui.

**Scientific secretary:** Richard Kerner.

**Editorial board:**

V. Arnol'd, J. Arzac, A. Bensoussan, G. Berry, H.D. Bui, H. Cabannes, S. Candel, C. Cercignani, Y. Choquet-Bruhat, Ph.G. Ciarlet, P. Clavin, M. Combarnous, G. Comte-Bellot, R. Dautray, P. Deheuvels, G. Duvaut, O. Faugeras, A. Favre, P. Flajolet, P. Germain, R. Glowinski, P. Huerre, G. Huet, G. Iooss, A. Jaumotte, G. Kahn, D. Knuth, P. Lax, J.-B. Leblond, A. Linan, O. Macchi, C.-M. Marle, Y. Meyer, H. Moffatt, R. Moreau, M. Nivat, L. Pandolfi, M. Pélegrin, P. Perrier, H. Petryk, O. Pironneau, Y. Pomeau, P. Ponte Castañeda, P.-A. Raviart, J. Rice, M. Roseau, J. Salençon, É. Sanchez-Palencia, P. Suquet, E. Van der Giessen, M.G. Velarde, A. Zaoui.

Cover photo: Numerical simulation of the impact of a liquid drop on a thin layer of the same liquid (Photo D. Gueyffier, S. Zaleski, LMM/CNRS).

---

© 2004 Académie des sciences. All rights reserved.

Published by Elsevier SAS, au capital de 12 198 000 € - 399 113 877 RCS Paris

**Publication information:** *Comptes Rendus Mécanique* (ISSN 1631-0721). For 2005, volume 333 is scheduled for publication. Subscription prices are available upon request from the Publisher or from the Regional Sales Office nearest you or from this journal's website (<http://www.elsevier.com/locate/issn/1631-0721>). Further information is available on this journal and other Elsevier products through Elsevier's website: (<http://www.elsevier.com>). Subscriptions are accepted on a prepaid basis only and are entered on a calendar year basis. Issues are sent by standard mail (surface within Europe, air delivery outside Europe). Priority rates are available upon request. Claims for missing issues should be made within six months of the date of dispatch.

**Desk Editor** – Christine Gray: Tel.: (+33) (0)1 71 72 43 63 – Fax: (+33) (0)1 71 72 46 58. [c.gray@elsevier.fr](mailto:c.gray@elsevier.fr)

**Advertising** – E-mail: [pub1@elsevier.fr](mailto:pub1@elsevier.fr)

**Subscriptions** – Tel.: (+33) (0)1 71 72 46 46 – Fax: (+33) (0)1 71 72 46 64. [ab2@elsevier.fr](mailto:ab2@elsevier.fr)

**Président-directeur général : Wubbo Tempel**

**Author enquiries**

For enquiries relating to the submission of articles (including electronic submission where available) please visit Elsevier's Author Gateway at <http://authors.elsevier.com>. The Author Gateway also provides the facility to track accepted articles and set up e-mail alerts to inform you of when an article's status has changed, as well as detailed artwork guidelines, copyright information, frequently asked questions and more. Contact details for questions arising after acceptance of an article, especially those relating to proofs, are provided after registration of an article for publication.

**CONTENTS  
direct**

This journal is part of **ContentsDirect**, the *free* alerting service which sends tables of contents by e-mail for Elsevier books and journals. You can register for **ContentsDirect** online at: <http://contentsdirect.elsevier.com>

∞ The paper used in this publication meets the requirements of ANSI/NISO Z39.48-1992 (Permanence of Paper)

---

Imprimé en France par JOUVE  
1, rue du D<sup>f</sup>-Sauvé, 53101 Mayenne, France  
Dépôt légal à parution

Commission paritaire : 0507 T 81774  
Périodicité : 12 numéros par an