

APPLIED MATHEMATICS AND MECHANICS

The *Journal of Applied Mathematics and Mechanics* is translated cover to cover (Russian original copyright: Nauka, 90 Profsoyuznaya ul., Moscow 117864) and has been published by Pergamon since 1958.

Translation Editors:

R. C. GLASS, City University, London, UK

Panel of Translators:

P. S. CURTIS, R. C. GLASS, P. SHELNITZ, E. L. SHORT

PRIKLADNAYA MATEMATIKA I MEKHANIKA Russian Academy of Sciences

Editorial Board

F. L. CHERNOUS'KO (Editor-in-Chief)

Yu. P. GUPALO (Deputy Editor)

G. G. CHERNYI
I. G. GORYACHEVA
S. S. GRIGORYAN
A. V. KARAPETYAN
V. I. KONDAUROV
V. V. KOZLOV
N. N. KRASOVSKII

A. G. KULIKOVSKII
N. F. MOROZOV
Yu. S. OSIPOV
L. V. OVSYANNIKOV
G. A. TIRSKII
V. F. ZHURAVLEV

Editorial Advisory Board

L. D. AKULENKO
V. M. ALEKSANDROV
S. A. AMBARTSUMYAN
I. I. BLEKHMANN
N. N. BOLOTNIK
R. V. GOL'DSHTEIN
A. P. IVANOV
D. D. IVLEV
A. N. KRAIKO

A.S. KRAVCHUK
A. P. MARKEYEV
B. E. POBEDRYA
G. Ya. POPOV
V. V. PUKHNACHEV
N. N. ROGACHEVA
S. Ya. STEPANOV
V. V. SYCHEV
V. N. TKHAI

Publishing Offices: Elsevier Ltd., The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, UK. Tel. (01865) 843000. Fax. (01865) 843010.

Advertising information: If you are interested in advertising or other commercial opportunities please e-mail Commercialsales@elsevier.com and your enquiry will be passed to the correct person who will respond to you within 48 hours.

Publication information: *Journal of Applied Mathematics and Mechanics* (ISSN 0021-8928). For 2009, volume 73 (6 issues) is scheduled for publication. Subscription prices are available upon request from the Publisher or from the Elsevier Customer Service Department nearest you or from this journal's website (<http://www.elsevier.com/locate/jappmathmech>). 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.

Orders, claims, and journal enquiries: please contact the Elsevier Customer Service Department nearest you:

St. Louis: Elsevier Customer Service Department, 3251 Riverport Lane, Maryland Heights, MO 63043, USA; phone: (877) 8397126 [toll free within the USA]; (+1) (314) 4478878 [outside the USA]; fax: (+1) (314) 4478077; e-mail: JournalCustomerService-usa@elsevier.com

Oxford: Elsevier Customer Service Department, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, UK; phone: (+44) (1865) 843434; fax: (+44) (1865) 843970; e-mail: JournalsCustomerServiceEMEA@elsevier.com

Tokyo: Elsevier Customer Service Department, 4F Higashi-Azabu, 1-Chome Bldg, 1-9-15 Higashi-Azabu, Minato-ku, Tokyo 106-0044, Japan; phone: (+81) (3) 5561 5037; fax: (+81) (3) 5561 5047; e-mail: JournalsCustomerServiceJapan@elsevier.com

Singapore: Elsevier Customer Service Department, 3 Killiney Road, #08-01 Winsland House I, Singapore 239519; phone (+65) 63490222; fax: (+65) 67331510; e-mail: JournalsCustomerServiceAPAC@elsevier.com

© 2010 Elsevier Ltd. All rights reserved.