

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:

Professor G. HERRMANN, Stanford University, CA, USA
R. C. GLASS, City University, London, UK

Panel of Translators:

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

PRIKLADNAYA MATEMATIKA I MEKHANIKA

Russian Academy of Sciences

Editorial Board

V. V. RUMYANTSEV (Editor-in-Chief)

Yu. P. GUPALO (Deputy Editor)

F. L. CHERNOUS'KO
G. G. CHERNYI
I. G. GORYACHEVA
S. S. GRIGORYAN
N. N. KRASOVSKII

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

Editorial Advisory Board

L. D. AKULENKO
V. M. ALEKSANDROV
S. A. AMBARTSUMYAN
I. I. BLEKHMAN
V. V. BOLOTIN
R. V. GOL'DSHTEIN
A. P. IVANOV
D. D. IVLEV
A. V. KARAPETYAN
V. I. KONDAUROV
V. N. KOSHLIYAKOV
V. V. KOZLOV
A. N. KRAIKO

G. A. LYUBIMOV
A. P. MARKEYEV
V. M. MATROSOV
A. A. MELIKYAN
B. E. POBEDRYA
G. Ya. POPOV
V. V. PUKHNACHEV
N. N. ROGACHEVA
S. Ya. STEPANOV
V. V. SYCHEV
V. N. TKHAI
V. F. ZHURAVLEV

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

Advertising Information. Advertising orders and enquiries can be sent to: **USA, Canada and South America:** Mr Tino DeCarlo, The Advertising Department, Elsevier Inc., 360 Park Avenue South, New York, NY 10010-1710, USA; phone: (+1) (212) 633 3815; fax: (+1) (212) 633 3820; e-mail: t.decarlo@elsevier.com. **Japan:** The Advertising Department, Elsevier K.K., 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: jp.info@elsevier.com. **Europe and ROW:** Commercial Sales Department, Elsevier Ltd., The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, UK; phone: (+44) 1865 843016; fax: (+44) 1865 843976; e-mail: media@elsevier.com.

© 2006 Elsevier Ltd. All rights reserved.

USA mailing notice: *Journal of Applied Mathematics and Mechanics* (ISSN 0021-8928) is published bimonthly by Elsevier Ltd. (The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, UK). Annual subscription price in the USA US\$ 3638.00 (valid in North, Central and South America), including air speed delivery. Application to mail at periodical postage rate is pending at Rahway, NJ.

USA POSTMASTER: Send address changes to *Journal of Applied Mathematics and Mechanics*, Elsevier, 6277 Sea Harbor Drive, Orlando, FL 32887-4800.

AIRFREIGHT AND MAILING in the USA by Mercury International Limited, 365 Blair Road, Avenel, NJ 07001.