

The journal is dedicated to the following problems:

Dynamics and strength of machines
Material science
Mathematical simulation and calculation methods
Mechanics of deformable-rigid body
Corrosion protection of materials
Design, calculations, testing and reliability of machines
Drive systems
Friction and wear in machines
Manufacturing engineering
The journal intended for scientists and specialists in mechanical engineering.

EDITORIAL BOARD

O. Andrejkiv
M. Bobyr
S. Gutryra
I. Dmytrakh
M. Dmytrychenko
O. Hachkevych
V. Kiryan
B. Kindratsky
I. Kuzio
R. Kushnir
V. Malashchenko
V. Marcinkovsky
V. Osadchuk
O. Ostash
V. Pavlyshche
V. Palash
V. Panasyuk
V. Pokchmurskyi
Z. Stocko
V. Strutynsky
G. Sulym
G. Trishch
E. Kharchenko
M. Shulzhenko

Editorial office address:

Po.Box 6758, Lviv-58, Ukraine.
Telefax: 380 (32) 231-92-99
E-mail: me@in.lviv.ua

© Mechanical Engineering, 2011.

CONTENTS

- 3. Andreykiv O., Skalskyi V., Matviyiv Yu, Kradinova T. The determination of sub-critical growth cracks period in beam elements of the opened type under the long-term static loadings**
- 7. Babenko A., Lavrenko I. Stress state of the lab centrifuge cup determination under action of dynamic loading**
- 11. Pilipenko O. Complex approach to providing of chain drives quality**
- 17. Bilous Vad., Kozhuhar A., Bilous Vol. Features of calculation of the combined shell of high-pressure apparatuses**
- 22. Horbay O., Diveyev B., Konyk I. The elastic interlayer's influence on the dynamic and strength of bus construction**
- 26. Chernets M., Yarema R. To the question about hooking correction influence of cylindrical oblique-cogged gear on its longevity**
- 29. Lanets O., Serkiz O. The practice of creation of the vibratory electromagnetic setting for cutting of the squared beam of brick-raw**
- 34. Gashchuk P., Pelio R. Effective algorithm of internal combustion engine control during the process of transmission shifting**
- 44. Popov O., Kiprejev Yu. Features of designing of modern gearings**
- 48. Lavinsky D. Problems of solid elastic-plastic deformation under pulse-magnetic loading**
- 52. Information for Authors**