

CONTENTS

VOLUME 26

NUMBER 3

2006

RUSSIAN ENGINEERING RESEARCH

PAGES
RUSSIAN/ENGLISH

Vestnik Mashinostroeniya, Vol. 86, No. 3, 2006

Design, Calculation, Tests, and Reliability of Machines

Requirements on the displacements of the objects of manipulation and the techniques for realizing the devices for their displacements. S. O. Nikiforov and A. N. Pavlov	3	1
Thread tightening quality control. I. L. Blaer	9	10
On the analytic determination of the minimal hydraulic motor rotational speed. G. A. Avrunin	19	16
Transformation of the parametric structural schemes of the nanodisplacement piezomotor. S. M. Afonin	22	21

Cycle of Articles

"Problems of Tribology - Friction, Wear, and Lubrication"

(General Editor Yu. N. Drozdov, Doct. tech. sci.,

Member Russian Academy of Cosmonautics
and Russian Engineering Academy)

Dependence of the corrosion/mechanical wear of the construction materials on the presence of small amounts of the ethanolamines in the lubricant. A. P. Perekrestov	43	28
--	----	----

Manufacturing Engineering

Prospects of the azide systems for SHS of the nitrides with the use of various halogenides. A. P. Amosov, G. V. Bichurov, L. A. Shiganova, and T. Yu. Rodina	54	32
--	----	----

STIN, No. 3, 2006

Metal-Working Tools

Wear-resistant coatings with nanocrystalline structure for high-speed machining. M. Sh. Migranov and L. Sh. Shuster	10	36
Predicting the operating effectiveness of the grinding materials from the micromechanical grain test results. O. I. Pushkarev and V. M. Shumyacher	14	41

Machining Technology

Thermophysics of vibratory diamond burnishing. Ya. I. Barats and I. A. Maslyakova	19	46
Grinding gears on machines using the copying method with single division. Yu. I. Rozhnovskii and E. I. Fradkin	23	52
Increasing the effectiveness of straddle grinding of thin-wall workpieces. V. F. Gur'yanikhin and A. D. Evstigneev	26	57