

CONTENTS

VOLUME 46

NUMBER 7

2005

RUSSIAN JOURNAL OF NON-FERROUS METALS

PAGES
RUSSIAN/ENGLISH

Metallurgy of Non-Ferrous Metals

- Thermodynamic properties of dilute sulfur solutions in molten cobalt.
B. P. Burylev, V. E. Kritskii, and L. Sh. Tsemekhman 4 1

Metallurgy of Less-Common and Precious Metals

- Survey of the world market for indium (the economics of indium). A. V. Naumov 12 8
Technological studies on dissolution of gold in a chloride-hypochlorite
medium. G. G. Mineev and I. A. Zhuchkov 23 15

Casting Production

- Influence of special modifying treatment on microstructure and mechanical
properties of eutectic piston silumin. V. D. Belov, A. A. Selivanov,
and S. A. Kucheryaev 32 20

Physical Metallurgy and Heat Treatment

- A study of the influence of additives of Mn, Cu, and Cr on the structure of
ingots of Al–Mg–Si alloys in heat treatment. V. S. Zolotarevskii,
P. Yu. Bryantsev, V. K. Portnoi, V. S. Levchenko, and M. V. Zhirnova 41 24

Powder Materials and Coatings

- Interaction in the system MoSe₂–Ni, Fe, Cr in formation of lubricating
coatings by thermodiffusion synthesis in selenium vapors.
M. V. Lobanov, T. A. Lobova, D. N. Shevchenko, and T. A. Sviridova 57 31

Process Control and Automation

- An automatically adjusting adaptive industrial regulator for the metallurgical
industry. A. M. Shubladze, Z. G. Salikhov, S. V. Gulyaev,
A. A. Shubladze, K. Z. Salikhov, V. A. Malakhov, and V. R. Ol'shvang 73 37