CONTENTS

VOLUME 46 NUMBER 7 2005

RUSSIAN JOURNAL OF NON-FERROUS METALS

	PAGES RUSSIAN	PAGES 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. Zolotorevskii, P. Yu. Bryantsev, V. K. Portnoi, V. S. Levchenko, and M. V. Zhirnova	41	24
Powder Materials and Coatings		
Interaction in the system $MoSe_2$–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