

CONTENTS LIST

JOURNAL OF ENGINEERING PHYSICS

Volume V, No. 7

July, 1962

	<i>Page</i>
S. I. KOSTERIN, V. V. POLYAKOV, N. I. SEMENOV and A. A. TOCHIGIN: Hydraulic resistance of steam-water flows in vertical unheated pipes	3
D. P. POLIKARPOV and N. N. BAKHMAN: The propagation of flame along the surface of a metal contact with solid oxidizing agents	11
V. N. IEVLEV and S. A. GOLDENBERG: The effect of diffusion factors on flame stabilization	18
L. N. KHITRIN: The combustion equation of a flow of powdered fuel (coke) where chemisorption of oxygen takes place	23
N. V. KRYLOV and K. I. STRAKHOVICH: The heat transfer of horizontal surfaces of heat insulating structures through which metal passes in deep freezing systems	28
A. I. CHAPLINA: An experimental study of heat transfer along a streamlined plate	34
V. V. KRASNIKOV and V. A. DANILOV: The local rate of mass transfer in composite drying	39
V. S. ZHUKOVSKY: The isothermal flow of gas along pipes	45
S. B. GERASIMOVA: The effect of thermal diffusion on heat convection of a binary mixture	52
E. M. OGRYZKIN: A thermodynamic analysis of the state of a boiling steel melting bath	59
A. S. KASPEROVICH and A. G. SHASHKOV: The effect of parameters and heat transfer conditions on the frequency of vibrations in a circuit containing a thermistor	65
G. L. POLYAK and V. N. ADRIANOV: The algebra of resolving fluxes in radiant exchange	70
<i>Notes</i>	
A. K. LEONTYEV: A simple method for determining the temperature of a heat transfer surface	83
L. D. VOLYAK: The calculation of the thermophysical properties of sodium	83
Z. M. ZANOZINA and E. D. SHCHUKIN: The destruction of metals in the presence of highly adsorption-active metal melts along the grain and along the edge of the grain	86
I. V. GENERALOV: A new design for an instrument for measuring ultra-violet radiation	91
M. P. YUSHKOV: A transcendental equation encountered in problems of mathematical physics	94
<i>People in Soviet Science</i>	
GEORGI KUZMICH FILONENKO (on his 70th birthday)	97
<i>Survey</i>	
B. M. SMOLSKY and I. T. ELPERIN: The effect of surface phenomena on transfer processes in heterogeneous systems	99
<i>Discussion</i>	
Response of readers to the article of I. T. Elperin "The problem of the terminology of heat and mass transfer" (JEP, No. 1, 1961)	113
<i>Chronicle</i>	
Conference of readers of the Journal of Engineering Physics and the International Journal of Heat and Mass Transfer held in Leningrad	134
Reader's guide	137