

CONTENTS

General problems

- Ya.O. Shablovsky.* Electrically and magnetically induced cryogeneration
in crystalline dielectrics 5

Theory

- P.V. Gorskiy.* Gigantic thermoemf of layered thermoelectric
materials in a quantizing magnetic field 15

Materials Research

- V.A. Romaka, P.-F. Rogl, L.P. Romaka, V.Ya. Krayovskyy, Yu.V. Stadnyk,
D. Kaczorowski, A.M. Horyn.* Features of structural, energy and
kinetic characteristics of $TiNiSn_{1-x}Ga_x$ thermoelectric material 24
- M.O. Haluschak, S.I. Mudryi, M.A. Lopyanko, S.V. Optasyuk, T.O. Semko,
L.I. Nikiryu, I.V. Horichok.* Phase composition and thermoelectric
properties of materials in *Pb-Ag-Te* system 34

Design

- L.I. Anatyshuk, R.V. Kuz.* Thermoelectric generator for trucks 40
- I.A. Konstantynovych.* On the efficiency of gyrotropic thermoelements in cooling mode 46
- M.V. Maksimuk.* Computer design of thermoelectric starting pre-heater on gas fuel 51
- V.Yu. Lutsenko, A.S. Zhagrov.* Experimental investigation of periodic transient
mode of thermoelectric generator 61
- V.O. Dudal.* Ultimate potential of underground thermoelectric generators 68

Metrology and standardization

- V.V. Lysko.* Analysis of errors in determining the thermoelectric properties
of materials by the harman method 75

News

- B. I. Stadnyk (Dedicated to 80th birthday) 89

