cCONTENT

MECHANICS AND MATERIALS SCIENCE

Yasniy P., Hlado V., Fedak S., Shulhan I. Modeling of Al-6%Mg alloy creep at static and dynamic loading.....7

Śnieżek L. Fatigue resistance, elements industrial pipeline with propagation semi-elliptical fatigue crack 13

Mylnikov A. Measuring of residual stress in of light guide fiber glass microzones by means of polarized-optical method 21

Maruschak P., Yasniy O. Damage tolerance analysis of continuous caster roll containing a circumferential semi-elliptical crack.....27

Dobrotvor I., Stukhlyak P., Zoloty R., Buketov A., Yacuk V., Rubaha V. Geometrical sizes and structural parameters researches of external surface layers in filling epoxycomposites 34

MANUFACTURING ENGINEERING AND AUTOMATED PROCESSES

Lutsiv I., Broshchak I. Research of process of education and taking of shaving from cutting area at deep boring by drill with edgeadaptive connection.....43

Gavrysh A., Melnyk E. Research of surface roughness at magnetically-abrasive treatment of details made of magnetically soft alloys 50

Gevko B., Kochybunska O., Dyachun A. Calculation of clamping device machine-tools with the spiral corrugated elements.....54

Baranovsky V., Pankiv M., Ramsch V. Improved combined working organ for excavation of root crops.....61

Kirichenko A., Lenchenko L., Zaika S. Kinematical analysis of machine tool with two coordinate mechanism of parallel structure “bipode” 74

Horodetsky I. Peculiarities of the blank shaping technology of ceramic fan jet nozzles.....80

Zakalov O., Bortnyk A. Research of process of grinding meat in a knives grinder of periodic action.....85

Komar R. Calculation of dynamic loadings in the drive with protection-compensated clutch 91

INSTRUMENT-MAKING AND INFORMATION-MEASURING SYSTEMS

Shyn O., Andriychuk V. Spectrometry method of estimation of photosynthesis efficiency of light sources.....97

Kochan O. Thermocouple based sensor.....102

Lupenko A., Natjaga V., Sysak I. Single-stage electronic ballast with power factor corrector 108

Sharyak V. Methods of researches of descriptions of systems of models of database 116

Palamar M. Feature of information receiving of Earth remote sensing from low-orbital space vehicles 121

MATHEMATICS. MATHEMATICAL MODELING. PHYSICS

Lenyuk M., Shelestovsky B. Calculation of the non-personal integrals according to the own elements of the Eiler-Furier hybrid differential operator in $[0, R_2]$ segment of the polar axis 127

Luchko J., Pelekh R. Two-side methods for the solution nonlinear second kind Volterra integral equations 134

Yakovenko V. Mathematical model operation of bulk porous materials' heating-up by energy of a microwave electromagnetic field 141

Shynhera N., Scherbak L. Evaluation of standard welded framework resource by statistical methods 147

Vyklyuk Ya. Methodology of socio-economic processes prognostication by crystals fractal growth in fuzzy potential field methods 153

Khvostivsky M. The method of analysis of electroretinosignal is for early diagnostics of the state of retina of eye of man 162

Sinchuk Y., Shynkarenko G. A posteriori error estimator of fem approximation for convection-diffusion-reaction problem 169

Didukh L., Skorenkyy Yu., Kramar O., Dovhopyaty Yu. Correlation effects in narrow energy bands. I. Energy spectrum of modified form of polar model 175

CHEMISTRY. CHEMICAL, BIOLOGICAL AND FOOD TECHNOLOGYS

Shynkaryk M., Voroshchuk V., Eresko G., Kymachynsky S. Investigation power consumption in couple rotor-stator in rotor-vortex emulsifier by production compositions products on base curds 184

Kuts V., Gorishna H., Martsiyash O. Methods of calculation, design and tests of the experimental model of foamy deduster 190