
CONTENTS

APPLIED GEOMETRY, ENGINEERING GRAPHICS AND ERGONOMICS

Danova K.V.

ASSESSMENT OF SENSORY LIMITATIONS OF PERSONS
WITH DISABILITY IN THE WORK SAFETY ASPECTS1

MACHINE SCIENCE

Martynenko V.H., Lvov G.I.

A NUMERICAL-EXPERIMENTAL PROCEDURE FOR DETERMINING
THE EFFECTIVE CHARACTERISTICS AND STRENGTH OF REINFORCED COMPOSITE7

Polishchuk M.N.

OPTIMIZATION OF THE PARAMETERS OF THE MOBILE ROBOT
WITH GAS GENERATOR OF ENERGY15

Rudik AV., Vengegha V.I.

EFFECTIVE GRINDING OF ROTATION SURFACES BY THE CONTACT CONTROL.....22

MATERIAL PROCESSING IN MECHANICAL ENGINEERING

Lavinsky D.V., Morachkovsky O.K.

THE DEFORMATION ANALYSIS OF STRUCTURES
FOR POWDER COMPACTION UNDER ELECTROMAGNETIC FIELD ACTION.....28

AIRCRAFT AND AEROSPACE TECHNIQUES

Yanchev S.V., Taku S.O.

DEVELOPMENT OF THE ADAPTIVE NEURAL NETWORK REGULATOR
OF THE INTELLIGENT CONTROL SYSTEM AVIATION ENGINE34

Olali N.V., Olali M.O., Orukari M., Jumbo E.E.

A MODEL OF COMPRESSOR BLADES CONTAMINATION IN AVIATION GTE IN OPERATION40

Shcherban A.P., Larin V.Y., Maslov V.P., Kachur N.V.

METHOD FOR CHECKING A LITHIUM-POLYMER BATTERY FOR UNMANNED AIRCRAFT48

ELECTRICAL ENGINEERING

Golubeva S.M., Morneva M.O., Toropov A.S.

COMPARATIVE ASSESSMENT OF GRAPHIC MODELING SYSTEMS
AND DESIGN AUTOMATION PRINCIPLES WHEN USING ENGINEERING PROFESSIONS
BY UNIVERSITY UNDERGRADUATES.....53

Kyrychenko O.S., Biljuk I.S., Shareyko D.Y., Fomenko A.M., Gavrilov O.S., Bugrim L.I.

NUMERICAL THREE-DIMENSIONAL MODELING OF THERMOELECTRIC COOLER
FOR MEASUREMENT ELECTRICAL EQUIPMENT OF AUTOMATIC SYSTEMS.....58

Kovalenko M.A., Maliar I.V.

EXPERIMENTAL STAND FOR THE INVESTIGATION
OF AN INDUCTION MOTOR WITH A SQUIRREL-CAGE ROTOR.....64

RADIO ENGINEERING AND TELECOMMUNICATIONS

Lysenko O.I., Novikov V.I., Petrova V.M., Guida O.G.

PROCEDURE FOR FORMATION THE ENERGY-SAVING LAYOUT TOPOLOGY
OF THE WIRELESS SENSOR CIRCUIT MONITORING OF THE TARGETS69

INFORMATICS, COMPUTER ENGINEERING AND AUTOMATION

Androschuk A.V., Pelykh S.N.

DEVELOPMENT AND RESEARCH OF THE AUTOMATIC CONTROL SYSTEM OF THE PROPERTIES OF THE NUCLEAR FUEL VVER-1000 FOR THE PROGRAM CONTROL THE POWER OF THE REACTOR WITH A CONSTANT AVERAGE COOLANT TEMPERATURE.....73

Biriak V.V.

PURPOSE OF CPS EQUIPMENT. MODES OF OPERATION OF CPS FUNCTIONAL SYSTEMS. THE MODEL OF EFFICIENCY OF THE CPS REGULATORY GROUP AT ZAPORIZHIA NPP79

Blanar P.G., Ulitska E.O.

DESIGN OF THE AUTOMATIC CONTROL SYSTEM OF COMBINED HEAT AND POWER PLANT THERMAL ENERGY GENERATION CIRCUIT85

Boyko O.V., Pelykh S.N.

DEVELOPMENT AND INVESTIGATION OF THE AUTOMATED SYSTEM OF CONTROL OF VVER-1000 NUCLEAR FUEL PROPERTIES FOR THE PROGRAM OF REGULATION OF POWER OF A REACTOR WITH THE CONTINUOUS TISSUE OF SECONDARY CIRCUIT.....91

Borodkina I.L., Borodkin H.O.

INFORMATION SUPPORT FOR MARKETING ACTIVITIES ON THE MARKET OF VETERINARY PRODUCTS97

Verbitsky V.H., Polyakova N.P., Tatievskiy D.M.

RESEARCHING OF A POSSIBILITY TO IMPLEMENT CONTROLLED ROAD TRAIN MOVEMENT ALONG A PROGRAM CURVE103

Vlasyuk A.P., Zhukovska N.A., Zhukovskyy V.V., Shendera I.M.

MATHEMATICAL AND COMPUTER MODELLING OF THREE-DIMENSIONAL DEFORMATION PROCESSES OF SOIL MASSIF UNDER HEAT AND MASS TRANSFER AND COMMUNICATION FORCES EFFECT111

Vovk I.V., Beglov K.V.

MODELING OF WATER BOILERS IN FUEL CONTAMINATED FLUID FUELS.....116

Vodka O.O., Panarina O.D.

DEVELOPMENT OF METHODS OF COMPUTER SYNTHESIS AND ANALYSIS OF THE CHARACTERISTICS OF MATERIALS OF INHOMOGENEOUS STRUCTURE122

Dmytryshyn S.S., Davidov V.O.

ENHANCEMENT OF THE EFFICIENCY OF BURNING CARBOHYDRATED GASES IN POROGENERATOR INSTALLATIONS AT THE RATES OF REFRACTION OF THE FUEL / AIR127

Duba I.E., Beglov K.V.

MODELING OF WATER-HEATING BOILERS UNDER DEEP PERTURBENCES ON THE HEATING CAPACITY OF FUEL132

Doobko V.A.

THE FIRST INTEGRALS OF THE ITO EQUATIONS WITH RANDOM COEFFICIENTS AND OF THE EXTENDED SYSTEM OF ITO EQUATIONS137

Yermakov I.A., Lozhechnikov V.F.

UPGRADED SYSTEM OF AUTOMATION CONTROL OF THE WATER LEVEL WITH SIGNAL OF THE TEMPERATURE DIFFERENCE IN THE INSTALLATION OF STEAM GENERATION AT POWER UNIT IN VVER-1000 OF NPP.....142

Zhuchenko O.A., Khibeba M.G.

MODEL OF CARBON PRODUCTS FORMING IN PREPARATION AND PRESSING MODES149

Kyrylenko M.V. CALCULATION OF OPTIMUM SETTINGS OF THE REGULATOR OF THE VACUUM IN A CHAMBER	160
Kirichek G.G., Rudkovsky O.R., Timoshenko V.C. DECENTRALIZED SYSTEM OF THE SUPPORT COMPUTATIONS	166
Kiselova N.I., Pogrebniy Y.S., Beglov K.V. DEVELOPMENT OF AUTOMATIC SYSTEM FOR REGULATING THE POWER OF THE POWER UNIT OF THE WWER-1000 NPP IN THE MODE N	170
Kiselova N.I., Pogrebniy Y.S., Beglov K.V. DEVELOPMENT OF AUTOMATIC SYSTEM FOR REGULATING THE POWER OF THE POWER UNIT OF THE WWER-1000 NPP IN THE MODE T	174
Klymchuk V.O., Kornaha Ya.I. INTELLECTUAL SYSTEM OF RECOGNITION OF HUMAN EMOTIONS BY NEURAL NETWORK	178
Konushbaeva T.V., Beglov K.V. ASR POWER PERFORMANCE OF NPP NPV WITH WWER-1000 UNDER STORAGE OF THE SECOND TEMPERATURE OF THE FIRST CONTROL PERMANENT	183
Lyutenko J.M., Lozhechnikova N.V. IMPROVED CONTROL SYSTEM OF THERMAL LOAD OF THE STEAM BOILER FOR THE COMBUSTION OF COMBUSTIBLE OXYGEN CONTAINING HYDROCARBON GASES	189
Mastykash O.V. MODEL OF SOCIAL ENVIRONMENT OF THE INTERNET	195
Murenko V.V., Diakov S.O. CRM SYSTEM OF SALE AND PURCHASE OF ADVERTISING MESSAGES IN “TELEGRAM”	199
Pavlenko V.D., Lomovoy V.I. CONSTRUCTION OF THE MODEL OF APPROXIMATION NONLINEAR DYNAMIC SYSTEM IN THE FORM VOLTERRA POLYNOMIAL	205
Pasyeka M.S. SYSTEM ANALYSIS OF CLOUD TECHNOLOGY FOR THE DEVELOPMENT OF SOFTWARE APPLICATIONS	211
Petrosyan A.A., Davidov V.O. AUTOMATIC SYSTEM OF REGULATION OF ECONOMY OF THE GAM-50 COUPLING BOILER	216
Povkhan I.F. THE PROBLEM OF FUNCTIONAL ASSESSMENT OF THE TRAINING SET IN THE TASKS OF RECOGNITION OF DISCRETE OBJECTS	221
Portianko T.M. PRACTICAL APPROACH TO THE FORMATION OF THE VALIDATION MASTER PLAN IN THE PROCESS OF VALIDATION OF COMPUTERIZED SYSTEMS	227
Portianko T.M., Kucherenko V.S. FEATURES OF RISK MANAGEMENT IN IMPLEMENTATION OF COMPUTERIZED SYSTEM AT PHARMACEUTICAL ENTERPRISES	233