

CONTENTS

ELECTRICAL ENGINEERING

Peretyatko Yu. V., Trotsenko Ye. O., Nesterko A. B., Parashchynets A. R.

INFLUENCE OF PHASE PARAMETERS OF HARMONIC COMPONENTS ON THE FORMATION OF TIME DEPENDENCES OF ELECTRICAL QUANTITIES.....1

RADIO ENGINEERING AND TELECOMMUNICATIONS

Voronets O.M., Pustovoitov P.Ye., Voronets V.M.

ANALYTICAL MODEL FOR PREDICTING THE LIFETIME OF SENSOR NETWORK NODES TAKING INTO ACCOUNT THEIR FUNCTIONAL ROLE.....12

Zymovchenko V.O.

OPTIMAL CHOICE FOR STATIONARY ENERGY STORAGE: A COMPARATIVE ANALYSIS OF LITHIUM BATTERIES.....19

Kalmykov O.S.

APPLICATION OF ARTIFICIAL INTELLIGENCE ALGORITHMS TO IMPROVE THE RELIABILITY OF WIRELESS NETWORKS.....25

Kaplychnyi O.S.

RESEARCH OF A MICROWAVE SWITCH WITH NEGATIVE RESISTANCE COMPENSATION.....34

Konovalov D.H., Yakovenko I.V.

A PREDICTION-ORIENTED ROUTING MODEL FOR DELAY REDUCTION IN DRONE SWARMS. 40

Mykhalevskiy D.V., Vasylyshyn V.I., Kotsiuba V.P.

COVERAGE ASSESSMENT OF CORPORATE WIRELESS NETWORKS BASED ON A MODIFIED OKUMURA-HATA MODEL.....47

Tarasenko Ye.V.

METHODOLOGICAL BASIS OF INTELLECTUAL METHODS OF ACCOMPANYING AIR TARGETS IN CONDITIONS OF RADIO ELECTRONIC INTERFERENCE.....53

POWER ENGINEERING

Bezrodnyi M. K., Vovk V. V.

THE IMPACT OF HEAT PUMP BYPASSING ON THE ENERGY EFFICIENCY OF CONTINUOUS-FLOW HEAT PUMP GRAIN DRYERS.....60

Bozhenko M.F.

METHODOLOGY FOR SELECTING EQUIPMENT FOR FLUE GAS HEAT RECOVERY IN BOILER HOUSES WITH COMBUSTION AIR HUMIDIFICATION.....70

Prytula N.O., Lyashenko A.M., Sereda V.V., Solomakha A.S.

EXPERIMENTAL INVESTIGATION OF THE AIR DEHUMIDIFICATION PROCESS IN A FINNED-TUBE HEAT EXCHANGER.....77

Rachynskiy A.Yu., Baranyuk O.V., Tykhokhod V.O., Pikenin O.O.

IMPROVEMENT OF RELIABILITY AND ENVIRONMENTAL SAFETY INDICATORS OF THE DKVR-10-13 BOILER DURING DIVERSIFICATION OF THE FUEL BASE.....85

Tkachov A.K., Yahanov P.O.

ANALYSIS OF THE USE OF THE LAMBERT FUNCTION IN MODELING THE MAXIMUM POWER POINT OF SOLAR CELLS AND A SIMPLIFIED ANALYTICAL APPROACH.....93

Fateeva K.O.

APPLICATION OF MICROWAVE HEATING IN THE EXTRACTION OF BIOLOGICALLY ACTIVE COMPOUNDS FROM PLANT MATERIALS.....100

CHEMICAL TECHNOLOGY

Vorobiova V.I., Sikorsky O.O.

CREATION OF AN ECOLOGICAL RUST CONVERTER BASED ON NATURAL POLYPHENOL COMPOUNDS.....107

Glukhovskiy V.V.	
INTERPHASE INTERACTION IN THE CONTACT ZONE AND ITS ROLE IN STRENGTHENING OF COMPOSITE MATERIALS.....	115
Ilyashenko Yu.V., Efymenko V.V.	
ENVIRONMENTAL ASPECTS OF THE USE OF VEGETABLE MOTOR OILS TAKING INTO ACCOUNT CHANGES IN THEIR QUALITY.....	125
Kosohin O.V., Kushmyruk A.I., Linyucheva O.V.	
ELECTROTITRATION METHOD FOR DETERMINING THE CONTENT OF HYDRAZINE COMPOUNDS.....	131
Kusniak I.I., Bekhta P.A., Kozak R.O., Kopanskyy M.M., Ortynska G.Ye., Bryn O.I., Salabay R.G., Tymyk D.V., Kriazhok S.A.	
INFLUENCE OF THE TYPE AND CONCENTRATION OF MODIFIED STARCH ON THE PROPERTIES OF LINERBOARD.....	139
Morgun V.I., Semeshko O.Ya., Saleba L.V.	
FORMULATION AND QUALITY EVALUATION OF AN ANTIDANDRUFF SOLID SHAMPOO.....	146
Polishchuk B.V., Mitina N.B.	
PROSPECTS FOR THE APPLICATION OF POLYMER PLAIN BEARINGS IN PILGER ROLLING MILLS.....	152
Skyba M.I.	
SYNTHESIS AND FUNCTIONALIZATION OF GOLD NANOPARTICLES FOR POLLUTANT DETECTION.....	158
Soldatenkov V Yu., Melnyk L.I.	
BIOFILLERS AS A TOOL FOR FORMING HIERARCHICAL ROUGHNESS IN SUPERHYDROPHOBIC COATINGS.....	165
Solod M.I.	
THE RESEARCH ON AIR POLLUTION DUE TO MILITARY-ANTHROPOGENIC INFLUENCES..	176
Tsyhanenko V.P., Trofimov I.L., Rogalskyi S.P.	
IMPACT OF FUNCTIONAL CHEMICAL ADDITIVES ON THE ANTIWEAR PROPERTIES OF DIESEL FUELS AND MOTOR OILS.....	182
Shkoda V.O., Kravchenko O.V., Gulyayev V.M., Kovalenko A.L.	
AUTOCLAVE LEACHING OF SPENT PT(PD)-CATALYSTS ON ALUMINIUM-BASED SUPPORTS WITH MINIMAL PLATINUM LOSSES.....	191
 TECHNOLOGY OF FOOD PROCESSING AND CONSUMER GOODS INDUSTRY	
Yevtushenko A.V., Boiko H.A. Zilinskyi A.I.	
INFLUENCE OF ULTRASOUND CAVITATION TREATMENT PARAMETERS ON THE SEPARATION OF FLAX FIBER FROM OIL FLAX STEM.....	196
Strokova T.M., Sirko Z.S., Vashchenko V.V., Kostenko O.I., Ovcharenko A.O.	
MICROBIOLOGICAL STUDIES OF FREEZED FOOD PRODUCTS FOR THE DETECTION OF PATHOGENIC MICROORGANISMS.....	201
 TRANSPORT	
Bekh Ya.P.	
RESERVATION OF RAILWAY AUTOMATION DEVICES AND TELECOMMUNICATION SYSTEMS FOR IMPLEMENTATION OF SOLAR ENERGY.....	208
Zakharchuk O.P.	
OPTIMIZATION OF GEAR RATIOS OF A PASSENGER BUS MANUAL TRANSMISSION TO IMPROVE FUEL ECONOMY.....	213
Kolomytsev V.M.	
ANALYSIS OF MODERN TRANSMISSION DESIGNS ALL-WHEEL DRIVE TRUCKS.....	221
Lovska A.O., Pavliuchenkov M.V., Muradian A.O., Demydiakov O.V.	
FEATURES OF DETERMINING THE VERTICAL LOADING OF A TRAPEZOID-SHAPED REMOVABLE ROOF OF AN OPEN WAGON.....	227

Stepanov O.V., Volobuyeva T.V. TRANSPORT SAFETY: A KEY FACTOR IN THE DEVELOPMENT OF THE TRANSPORT SYSTEM.....	233
Turpak S.M., Fomina A.M., Ostrohliad O.O., Olenytsia O.O., Lebid H.O. CONVERGENCE OF OPERATIONAL PLANNING, INTELLIGENT TRANSPORTATION AND DEFENSE RESILIENCE: A NEW FORMAT FOR INDUSTRIAL PRODUCT LOGISTICS.....	239
Khitrov I.O. TRANSPORT SYSTEM MODELING AS A TOOL FOR MOBILITY ANALYSIS AND MANAGEMENT.....	245
INFORMATION ABOUT AUTHORS.....	251