CONTENTS

MACHINE SCIENCE Polishchuk M.M., Tkach M.M., Lutsak D.S.
MOBILE WALKING ROBOT WITH MOTION ENERGY RECOVERY SYSTEM
MATERIAL PROCESSING IN MECHANICAL ENGINEERING Lavinsky D.V., Anischenko G.O., Konkin V.M., Konokhov V.I.
COMPUTATIONAL STRENGTH ANALYSIS OF FOLDED MOLDS FOR PROCESSING HEATED POWDER MATERIALS
SHIPBUILDING
Kholdenko V.I.
METHODS FOR ASSESSING THE CONDITION OF SHIP PUMPS BASED ON VIBRATION AND ACOUSTIC DIAGNOSTICS DURING OPERATION
EQUIPMENT
Baranovskyi D.M., Kucherenko V.L.
USE OF APPLIED AND GRADIENT OPTIMIZATION METHODS FOR DEVELOPMENT OF A FAILURE PREDICTION BLOCK IN A FAMILY DOCTOR'S DECISION
SUPPORT SYSTEM
RADIO ENGINEERING AND TELECOMMUNICATIONS
Barannik V.V.
METHODOLOGICAL FRAMEWORK FOR IMPROVING THE SYSTEM OF NONEQUILIBRIUM POSITIONAL VIDEO DATA ENCODING IN INFOCOMMUNICATION SYSTEMS
Bobronnikov A.S., Lebedev D.Yu.
METHODS OF PROVIDING COMFORT IN THE LIVING ENVIRONMENT AND A SYSTEM FOR THEIR IMPLEMENTATION
Vetoshko I.P., Kravchuk S.O.
INTEGRATION OF MACHINE LEARNING-BASED PREDICTION AND DYNAMIC QOS OPTIMIZATION INTO ADAPTIVE VONR SCHEDULING IN 5G STANDALONE NETWORKS: A SIMULATION-BASED APPROACH
Harkavenko O.A., Hubar V.H
RESEARCH AND SOLUTION OF THE PROBLEM OF A PORTABLE DEVICE FOR MEASURING ROAD SURFACE CHARACTERISTICS
Dyra V.V.
METHODS OF OPTIMIZING ETHERNET AND WI-FI INTERACTION IN HYBRID TELECOMMUNICATION INFRASTRUCTURES
Kompaniiets V.O., Pustovoitov P.E.
NETWORK SCALPING MODEL BASED ON STOCHASTIC PROCESSES UNDER SELF-SIMPLE TRAFFIC CONDITIONS
Ovdiienko P.K., Lebedev D.Yu.
RESEARCH OF HEARING SCREENING PROBLEMS IN EVERYDAY LIFE AND WAYS TO SOLVE THEM USING MOBILE TECHNOLOGIES
Osadchuk O.V., Osadchuk I.O., Petrenko V.I., Skoshchuk V.K.
RESEARCH OF A DETERMINATIVE CHAOS GENERATOR BASED ON A TRANSISTOR
STRUCTURE WITH NEGATIVE DIFFERENTIAL RESISTANCE
Tachynina O.M., Slobodian O.P., Yenchev S.V., Tachynin Ye.V. DETERMINING THE DETECTION RANGE OF LOW-FLYING TARGETS BY A SURVEILLANCE
RADAR STATION 95

Tymofeiev Ye.M., Lysenko O.I. AN ANALYTICAL REVIEW OF APPROACHES TO THE APPLICATION OF MIMO
TECHNOLOGY FOR MONITORING CRITICAL INFRASTRUCTURE FACILITIES
Chukov O.O., Redko I.V. CONTINUOUS DEPLOYMENT OF OTA UPDATES IN IOT SOLUTIONS
Yusypiv T.V., Kyselov V.B., Guida O.G., Ometsinska N.V., Kurylko O.B. MATHEMATICAL MODELING OF SPEECH RECOGNITION SYSTEMS
BASED ON FUZZY LOGIC
POWER ENGINEERING
Voinov O.P., Elkin Yu.H. PROSPECTIVE DIRECTIONS FOR THE DEVELOPMENT OF BOILER-FURNACE TECHNOLOGIES
Haryst A.V. NEW TECHNOLOGIES FOR MANUFACTURING SOLAR PANELS AND MODULES
Dubovkina I.O., Myronchuk A.O. APPLICATION OF ALTERNATING IMPULSES OF PRESSURE FOR INTENSIFICATION OF HYDROPONIC
Zhukov R.O., Petryk O.A. SOLAR TRACKERS IN SPACE-CONSTRAINED CONDITIONS FOR ENHANCING THE EFFICIENCY OF SOLAR POWER PLANTS
Novosad Yu.I., Vorobiov M.V. ANALYSIS OF BIOMASS GASIFICATION PROCESSES AND FORECASTING THE COMPOSITION AND PROPERTIES OF SYNGAS
Peshko V.A., Sepik A.V. BOUNDARY CONDITIONS OF HEAT EXCHANGE IN THE FLOW SECTION
OF THE INTERMEDIATE PRESSURE ROTOR OF K-200-130 TURBINE
Chernousenko O.Yu., Rindyuk D.V., Zatyrka O.I. RESOURCE CHARACTERISTICS OF HEATING NETWORK PIPELINES
Sheleshei T.V., Honcharenko M.O. IMPACT OF ENERGY SYSTEMS ON ECOSYSTEM SERVICES: CHALLENGES AND STRATEGIC DIRECTIONS FOR DEVELOPMENT
Shpyliur P.S., Ivanenko N.P.
CLASSIFICATION OF FACTORS THAT AFFECT THE INCREASE IN EFFICIENCY AND EXTENSION OF THE SERVICE LIFE OF PHOTOELECTRIC SYSTEMS
METALLURGY
Yefimova V.G., Smirnov Yu.O. REFINING OF STEEL IN THE TUNDISH WITH A REACTION CHAMBER
Yefimova V.G., Smirnov Yu.O. DETERMINATION OF OPTIMAL MODES FOR PURGE OF METAL WITH INERT GAS DURING CONTINUOUS CASTING
CHEMICAL TECHNOLOGY
Glukhovskyi V.V. DEPENDENCE OF THE INTENSITY OF CORROSION PROCESSES OF THE REINFORCING COMPONENT ON THE POROSITY PARAMETERS OF THE COMPOSITE
Zolotarova O.V.
RESEARCH ON PURIFICATION METHODS OF EXTRACTION-GRADE ORTHOPHOSPHORIC ACID IN THE PRODUCTION OF DEFLUORINATED AMMONIUM PHOSPHATE

Kryvda R.V., Hatsenko K.V., Byelyanska O.R., Kravchenko O.V. RESEARCH ON BRIQUETTE FORMATION USING ACID TAR AND FUS AS BINDERS	225
Malynovskyi V.V., Mitina N.B INFLUENCE OF BIOLOGICAL PRODUCTS ON THE QUALITY OF COMPOSTS WHEN USING THE TECHNOLOGY OF AEROBIC COMPOSTING.	230
Melnyk L.I., Berehovyj T.O. STRUCTURAL FACTORS INFLUENCING THE THERMAL CONDUCTIVITY OF COMPOSITES FILLED WITH FLY ASH FROM THERMAL POWER PLANTS	238
Mitina N.B., Minina Yu.O. BIODEGRADATION OF POLYMER-POLYMER BLENDS BASED ON POLYSACCHARIDES BY PSEUDOMONAS BACTERIA	245
Petrov S.V., Bondarenko S.G., Sanginova O.V., Kolesnyk V.V., Orlyk V.M., Ganczarski M., Rój E. WATER VAPOR PLASMA GASIFICATION OF PLASTIC.	252
Skyba Yu.M., Skyba M.I., Kovalenko I.L. SYNTHESIS OF GOLD NANOPARTICLES USING EXTRACTS OBTAINED IN DEEP EUTETIC SOLVENT ENVIRONMENTS.	265
Stolyarenko H.S. SYNTHESIS AND USE OF OXYGEN RADICALS UNDER THE INFLUENCE OF VACUUM ULTRAVIOLET IN THE PRODUCTION OF NITRIC ACID	273
Trofimov I.L., Matveyeva O.L., Chumak V.L., Efimenko V.V., Levchenko S.V. DEVELOPMENT OF A DEVICE FOR HYDROGEN-OXYGEN-OZONE THERAPY	281
Shapoval V.M., Pylypenko O.I., Zayceva I.S., Panayotova T.D., Smirnov O.O. SPECTROPHOTOMETRIC DETERMINATION OF MICROQUANTITY OF NICKEL IONS IN SULPHATE SOLUTIONS.	290
TECHNOLOGY OF FOOD PROCESSING AND CONSUMER GOODS INDUSTRY	
Dmytrenko N.V., Dabizha N.O., Husarova O.V., Malashchuk N.S., Husarov V.M.	
HEAT AND MASS TRANSFER OF MELON DRYING TO A LOW RE-SIDUAL MOISTURE CONTENT.	296
Sirko Z.S., Vashchenko V.V., Ovcharenko O.A., Kostenko O.I., Gritsun V.M. INFLUENCE OF ENZYME PREPARATIONS ON THE DESTRUCTION OF NON-SUGARS IN BEET JUICE	306
Skuibida Ye.L. IMPROVING THE ENERGY EFFICIENCY OF FOOD PRODUCTION EQUIPMENT BY OPTIMIZING TRANSIENT PROCESSES	
TRANSPORT	
Botiakov A.V. HUMANITARIAN LIGISTICS & UNMANNED AVIATION SYSTEMS IN THE CONTEXT OF COLD CHAIN VACCINES TRANSPORTATION	321
Hilevych V.V., Pivtorak H.V., Suslov V.V. ASSESSMENT OF THE IMPORTANCE OF PA RAMETERS FOR PUBLIC TRANSPORT CHOICE IN URBAN TRAVEL	330
Hnidoi R.I. APPLIED RESEARCH TO JUSTIFY THE PROSPECTIVE VOLUME OF INLAND WATERWAY TRANSPORT.	336
Lovska A.O., Muradian A.O., Demydiakov O.V. DETERMINATION OF THE STRENGTH OF A HOPPER CONTAINER DURING LOADING AND UNLOADING OPERATIONS	346

Lovska A.O., Pavliuchenkov M.V., Garbuz A.O., Opanasenko O.V.	
RESEARCH OF THE LOADING OF A FLAT WAGON FOR LONG CARGO	
IN OPERATIONAL MODES.	352
Malakhov O.V., Nikolaieva L.L., Kiris O.V., Bondarenko A.V., Kozyryev I.P., Palagin O.M., Naydyonov A.I.	
USE OF BIELDGE WATER ULTRASONIC SEPARATION ON VESSELS	359
Nykytyuk P.V., Melnyk O.M.	
ADAPTIVE ASSESSMENT OF SHIP SAFETY BARRIER DEGRADATION	
AND OPERATIONAL RISK ANALYSIS.	365
Stolianov V.A.	
METHOD OF DETERMINING THE SERVICE REGION REGIME CARGOES IN UNIVERSAL	
CONTAINERS WITH THERMAL LINERS AND CRYOGASIFIERS	374
Taranenko S.V., Kyrychenko O.S., Cherednyk V.M., Kolesnyk V.V., Pristupa S.V., Pastukh O.V. ANALYSIS OF ELECTRODYNAMIC STABILITY OF INSULATORS AND BUSBARS	
OF THE MAIN SWITCHBOARD OF A SHIP UNDER SHORT-CIRCUIT CONDITIONS	383
Taranenko S.V., Kyrychenko O.S., Cherednyk V.M., Kolesnyk V.V., Pristupa S.V., Melnik V.Yu. IDENTIFICATION OF A SINGLE-DEGREE-OF-FREEDOM VIBRATION GENERATOR MODEL.	391
Fomin O.V., Lohvinenko O.A., Kuzmenko S.V., Zaverkin A.V.	
CLASSIFICATION OF POSITIVE-ACTION COMPRESSORS FOR RAILWAY ROLLING STOCK	399
Chernenko P.V., Fysun V.V., Prosviet Yu.D.	
MAN TGS CARS ON CHASSIS 4×4 AND 6×6 IN MODERN WAR, THEIR MAINTENANCE	
AND REPAIR	407
Chyzhyk V.M., Shvets M.D., Ivanenko R.O.	
USE OF UNMANNED TECHNOLOGIES IN HUMANITARIAN AID LOGISTICS SYSTEMS	
DURING EMERGENCY SITUATIONS.	413
Shapenko Ye.M., Kotova S.O., Yaroshevskyi V.V.	
THEORETICAL FOUNDATIONS OF FORMATION AND EVALUATION OF THE LOGISTICS	
POTENTIAL OF AN INDUSTRIAL ENTERPRISE.	422
Shpak N.G., Litachevskyi V.V.	
RESEARCH OF TRANSPORT CHAINS IN INTERNATIONAL MARITIME CARGO	
TRANSPORTATION	428
ELECTRONICS	
Antropov A.O., Gubar V.G.	
RESEARCH AND SOLUTION OF THE PROBLEM OF CREATING AN ANTENNA ROTATION CONTROLLER.	121
	434
Romashko V.Ya., Batrak L.M. THE INFLUENCE OF THE SOURCE'S OUTPUT CHARACTERISTICS ON ITS ENERGY	
PERFORMANCE	111
1 ERFORMANCE	441
INFORMATION ABOUT AUTHORS	448