

CONTENTS

APPLIED GEOMETRY, ENGINEERING GRAPHICS AND ERGONOMICS

Borisenko V.D., Ustenko S.A., Ustenko I.V.

MODIFICATION OF THE BERNOULLI'S LEMNISCATE AND ITS PRACTICAL APPLICATION1

INDUSTRIAL ENGINEERING

Zalyubovskyi M.G., Panasyuk I.V., Malyshev V.V.

PERSPECTIVE TECHNOLOGIES FOR PART PROCESSING
AND MIXING OF BULK MATTERS INTO MOBILE WORKING TANKS
(PART 2: TYPES OF EQUIPMENT WITH CAPACITIES MOVEMENT).....7

Kalchenko V.I., Kalchenko V.V., Wenzhega V.I., Vinnik V.A., Sklar V.M., Morochko V.V.

RESEARCH PROCESS OF SPEED MILLING OF CAMSHAFT ROLLS IN THE PERIPHERY
OF THE ORIENTED TOOL ON THE MODERNIZED MACHINE WZ208F313

Kalchenko V.I., Kalchenko V.V., Wenzhega V.I., Vinnik V.A., Sklar V.M., Morochko V.V.

EXPERIMENTAL INVESTIGATIONS OF HIGH-SPEED MILLING SHAFT ROLLS
ON MODERNIZED VZ208F4 MACHINE19

AIRCRAFT AND AEROSPACE TECHNIQUES

Berezanskyi V.G., Berezanskyi O.G., Baranik O.M., Konstantinov A.O., Svintsitskyi V.V.

APPROACH TO MODELING CONSTRUCTIVE PARAMETERS OF AVIATION
AMMUNITION SHEARS USING THE GENERALIZED PARAMETRIC METHOD25

Nechyporenko O.M.

HIGHLY RELIABLE MEASUREMENT SYSTEM
OF FLIGHT ALTITUDE OF A QUADROCOPTER32

ELECTRICAL ENGINEERING

Chemerys V.T.

ANALYSIS OF SOME DESIGN SOLUTIONS OF ELECTROMAGNETIC SCREENS
FOR COMPENSATION OF THE LEAKAGE FLUX IN THE ROTATING
COMPRESSION GENERATOR OF PULSED CURRENT40

RADIO ENGINEERING AND TELECOMMUNICATIONS

Mykhalevskiy D.V., Horodetska O.S.

DEVELOPMENT OF A MODEL FOR ASSESSING THE IMPACT
OF ARCHITECTURAL OBSTACLES ON THE BASIC PARAMETERS
OF THE WIRELESS CHANNEL OF 802.11 STANDARD48

Novikov V.I., Lysenko O.I., Valuyskyy S.V., Guida O.H.

MATHEMATICAL MODELS, METHODS AND ALGORITHMS
FOR OPTIMIZING PERFORMANCE OF THE WIRELESS SENSOR NETWORKS
WITH MOBILE SENSORS AND TELECOMMUNICATION AIR PLATFORMS54

Orlov A.T., Trapezon K.O.

INVESTIGATION OF FEATURES OF INFRASOUND SENSORS
IN THE DETECTION OF AIR OBJECTS65

Pereverziev O.A., Humen T.F., Trapezon K.O.

RESEARCH OF FEATURES OF USING LPWAN TECHNOLOGY
IN MODERN HOUSEHOLD SECURITY SYSTEMS71

INFORMATICS, COMPUTER ENGINEERING AND AUTOMATION

Babkin A.A., Kudin O.V.

AN OVERVIEW OF NEURAL NET MODELS FOR INTRUSION DETECTION SYSTEM 77

Bodilovskyi O.K.

SELECTION OF REGION OF INTEREST IN NON-CONTACT MONITORING OF RESPIRATION
PARAMETERS USING SEMANTIC SEGMENTATION 83

Vlasenko O.V., Iefremov Yu.M., Orynychak I.A.

ARTIFICIAL MIND AND ARTIFICIAL INTELLIGENCE, PRESENTATION OF TASK 90

Honchar S.F.

METHOD FOR RISK ASSESSMENT OF CYBERSECURITY
OF INFORMATION SYSTEMS OF SMART GRID 97

Zhikharevich V.V., Shumylyak L.M., Ostapov S.E., Diachenko L.I., Myroniv I.V.

CELLULAR AUTOMATA SIMULATION OF THERMAL PROCESSES
WHEN ALLOYS CRYSTALLIZATION 102

Zaluzhna G.V., Nefodova I.V.

DEVELOPMENT OF INFORMATION VIDEOS FOR THE ADVERTISING CAMPAIGN
OF HIGHER EDUCATION 109

Kontsur V.O., Beglov K.V.

OPTIMIZATION OF BOILER GROUP OPERATING
MODE DURING COMBUSTION OF NON-CERTIFIED FUEL 115

Kravchenko S.N., Grishkun E.O., Vlasenko O.V.

CLASSIFICATION METHODS FOR MACHINE LEARNING USING
THE SCIKIT-LEARN LIBRARY 121

Levkin D.A., Makarov O.A., Zavgorodniy A.I., Levkin A.V.

THE THEORETICAL RESEARCH OF MULTI-POINT BOUNDARY TASKS 126

Romaniuk L.A., Chykhira I.V.

AUTOMATED AIR TRAFFIC CONTROL SYSTEM OF UNMANNED AERIAL VEHICLES 131

Shilinh A.Yu.

EVALUATION THE QUALITY OF DISTANCE LEARNING
DISCIPLINES' INFORMATION CONTENT IN ACCORDANCE TO ISO / IEC-25010 STANDARD 136

POWER ENGINEERING

Kalinchyk V.P., Kalinchyk V.V.

ORGANIZATION OF INFORMATION LINKS
OF ENERGY MEASUREMENT AND ACCOUNTING TRACT 143

Kovalenko G.V.

HEAT TRANSFER ON NON-STATIONARY NUCLEATIVE BOILING
OF NANOFUIDS WITH A SOLID PHASE HAVING A LOW HEAT CONDUCTIVITY 149

Sinchuk O.M., Boiko S.M., Nekrasov A.V., Noznova M.O., Fed M.M.

ON THE DESIGN OF WIND POWER PLANTS IN THE CONDITIONS OF MINING ENTERPRISES 153

Chernousenko O.Yu., Butovsky L.S., Hranovska O.O., Moroz O.S., Starchenko O.S.

STARTING CHARACTERISTICS OF STABILIZER BURNING DEVICES
WHEN FUEL GAS SUPPLY IN THE RECIRCULATION ZONE 158

RESOURCE DEVELOPMENT

Riazantsev M.O., Nosach O.K., Riazantsev A.M.

CAUSES AND MECHANISM OF ROCK BREAKING 167

Serhienko O.I., Kohtieva O.P., Uvarov M.O.	
NUMERICAL MODELING OF VISCO-ELASTIC DEFORMATION OF A HOMOGENEOUS	
MASSIF AROUND OF A SINGLE WORKING SPACE	179
METALLURGY	
Kukhar V.V., Kurpe O.H.	
PHYSICAL SIMULATION OF THE HOT ROUGHING	
ROLLING POWER PROCESSES	185
Tarasov V.K., Vodennikova O.S., Kuris Yu.V., Matyasheva O.B.,	
Vodennikova L.V., Babochko D.Yu.	
RESEARCH OF MEASURES TO IMPROVE WORKING CONDITIONS	
IN COLD ROLLING SHOPS	191
INFORMATION ABOUT AUTHORS.....	197