

# CONTENTS

## INDUSTRIAL ENGINEERING

**Zalyubovskiy M.G., Panasyuk I.V.**

POWER STUDY OF THE SPATIAL SIX-LINK MECHANISM OF THE MACHINE  
FOR PROCESSING PARTS (PART 2: RESEARCH WHEN THE MACHINE IS RUNNING).....1

## AIRCRAFT AND AEROSPACE TECHNIQUES

**Boiko S.M., Nozhnova M.O., Zhurid V.I., Oliinyk Yu.L., Yemets V.V.**

ON THE ISSUE OF FLIGHT OPERATION OF UNMANNED AIRCRAFT DEPENDING  
ON THE FIELD OF THEIR IMPLEMENTATION .....7

**Boiko S.M., Stushchansky Yu.V., Hebda A.S., Golovanov S.L., Shakhova O.V.**

ASPECTS OF MODERNIZATION OF MI-2 AND MI-8 HELICOPTERS AIRCRAFT  
WITH ADDITIONAL INDICATION OF FLIGHT INFORMATION.....12

**Ostapchuk E.S.**

FEATURES OF THE PROCESS OF MID-AIR REFUELLING WHILE SETTING OBJECTIVES  
OF AUTOMATIC AIRCRAFT CONTROL AT THE STAGE OF ATTACHING.....17

## SHIPBUILDING

**Kovalenko I.V.**

WAYS TO INCREASE TECHNOLOGICAL RELIABILITY  
OF SHIP ENERGY INSTALLATIONS WITH THE USE OF DIFFERENT STEEL .....21

## POWER ENGINEERING

**Huley O.B., Kliuchka Y.P.**

ASSESSMENT OF THE INFLUENCE OF CHANGE OF COAL HUMIDITY ON THE TEMPERATURE  
REGIME OF THE FIREPLACE OF THE BOILER TPP-312A.....27

## METALLURGY

**Vodennikova O.S., Vodennikov S.A., Vinnyk I.I.**

ANALYSIS OF PRODUCTIVITY OF EXHAUST VENTILATION IN THE LAWNING DEPARTMENT.....35

**Nezhurin V.I., Nikolenko A.V., Kuvaiev V.Yu., Ivashenko V.P.**

THE STRUCTURE OF THE WORKING SPACE OF A RECTANGULAR MINE ELECTRIC FURNACE  
FOR SMELTING FERROSILICON MANGANESE, WITH CONSIDERING THE EXPERIMENTALLY  
STUDIED GAS-DYNAMIC FEATURES OF THE CONTENTS OF THE BATH .....42

## CHEMICAL TECHNOLOGY

**Fedoryshyn O.M., Kniazieva K.S., Khomyak S.V., Petrina R.O.**

OPTIMIZATION OF OBTAINING OF FLAVONOIDS AND PHENOLIC COMPOUNDS  
FROM EXTRACTS OF BIOMASS *CARLINA ACAULIS*.....48

**Frolova L.A.**

INVESTIGATION OF THE FERRITIZATION PROCESS IN THE  $CO^{2+}$  - $FE^{2+}$  - $SO_4^{2-}$  -  $OH^-$  BY ACTION  
OF CONTACT NON-EQUILIBRIUM LOW-TEMPERATURE PLASMA.....54

## TECHNOLOGY OF FOOD PROCESSING AND CONSUMER GOODS INDUSTRY

**Antonenko A.V., Brovenko T.V., Zemlina U.V., Tolok G.A.,**

**Krivoruchko M.U., Grischenko I.M., Bihdan O.O.**

TECHNOLOGY OF COOKING SNACKS WITH HIGH CONTENT OF FOOD FIBERS .....58

**Marchenko N.I., Ditrikh I.V.**

PROSPECTS OF WELLNESS INNOVATION IN THE HOSPITALITY INDUSTRY .....65

<b>Odarhenko D.M., Sokolova Ye.B., Karbivnycha T.V., Spodar K.V.</b> QUALIMETRIC EVALUATION SEMI-FINISHED PRODUCT FOR A SMOOTHIE .....	70
<b>Ocheretna A.V., Frolova N.E.</b> RESEARCH OF QUALITATIVE COMPOSITION OF RYZHIYA OIL AND PROSPECTS OF ITS USE IN DIETARY NUTRITION .....	76
<b>Rohova N.V., Volodko O.V.</b> NUTRITIONAL AND BIOLOGICAL VALUE OF JUICES, THEIR EFFECT ON THE HUMAN BODY AND THEIR IMPORTANCE IN NUTRITION.....	82
<b>Ryapolova I.O., Honcharuk D.V.</b> DEVELOPMENT OF RECIPES AND EXAMINATION OF SAWN PRODUCTS FROM NON-CONDENSED RAW MATERIALS .....	89
<b>Skulska I.V., Tsisaryk O.I., Slyvka N.B.</b> FORMATION OF QUALITATIVE INDICATORS OF THE CHEESE MADE AT PARTIAL REPLACEMENT OF SODIUM CHLORIDE .....	95
<b>Shyinkaruk M.V., Kirova Ya.V.</b> RATIONALE FOR THE DEVELOPMENT OF THE DEVELOPMENT OF A NEW TECHNOLOGY OF PRODUCTION OF CANNED CUCUMBERS WITH THE ADDITION OF NON-TRADITIONAL PLANTS .....	101
 <b>TRANSPORT</b>	
<b>Arsenieva N.O., Fomenko H.R.</b> FUNCTIONAL CLASSIFICATION OF CITY STREETS AND ROADS – WAYS TO IMPROVE TRAFFIC CONDITIONS .....	107
<b>Borovyk S.S.</b> METHODOLOGY OF DEVELOPMENT AND SELECTION OF THE OPTIMAL ROUTE OF PASSENGER VESSELS .....	114
<b>Havryliuk V.I., Titov S.S., Yeholnikov O.O.</b> MANAGEMENT OF PROCESSES OF DIAGNOSIS AND MONITORING OF AUTOMATIC MEANS ON PRIVATE RAILWAYS .....	120
<b>Daki O.A., Tkachenko V.V., Budolak S.Yu.</b> FUEL CONSUMPTION CONTROL METHOD ON RIVER SHIPS USING SPLINE FUNCTIONS .....	129
<b>Yemanov V.V., Poltavskyi E.M., Sporyshev K.O., Karpenko S.I.</b> METHOD OF FORMING A RATIONAL SET OF DIAGNOSTIC PARAMETERS OF SYSTEMS AND COMPONENTS OF THE VEHICLE, DIAGNOSED ACCORDING TO THE CRITERIA OF OPERATIONAL SAFETY .....	135
<b>Ivanchenko O.V., Ivanchenko A.O.</b> THE INFLUENCE OF TOTAL FUEL CONSUMPTION ON THE CHANGE OF THE TECHNICAL CONDITION OF AUTOMOTIVE EQUIPMENT.....	144
<b>Kruhlyi D.H.</b> KEY PROBLEMS AND DEVELOPMENT PROSPECTS RIVER INFORMATION SYSTEMS OF UKRAINE.....	150
 <b>CONSTRUCTION</b>	
<b>Dehtiar M.V.</b> FEATURES MANAGEMENT OF LIQUID HOUSEHOLD WASTE .....	158
<b>Khrapatova I.V., Naidonova V.E.</b> WORK OF PILE FOUNDATIONS IN SWELLING-SHRINKING AND SUBSIDENCE SOILS.....	164
 <b>GEODESY</b>	
<b>Buzina I.M., Kolomiets S.M., Lezhenkin I.O.</b> GEOINFORMATION TECHNOLOGIES FOR ASSESSMENT OF LAND RESOURCES AND GOVERNANCE AT THE ADMINISTRATIVE AREA.....	168
<b>INFORMATION ABOUT AUTHORS.....</b>	174