

CONTENT

Section

Mechanical engineering, materials and manufacturing systems

1. ENVIRONMENTAL ACTUALITY, TECHNOLOGICAL COMPETITIVE ENVIRONMENT AND PREDICTION OF THE PROSPECTS OF ANHYDROUS DIAMOND-SPARK GRINDING USING SOLID LUBRICANTS
Yury Gutsalenko, Cătălin Iancu, Tatyana Tavrina, Mirosław Rucki, Alexander Rudnev
.....13
2. SURFACE ROUGHNESS OF FORGED CRANKSHAFTS FOR MARINE ENGINES UNDER GRINDING WITH CUBIC-FORM BORON NITRIDE WHEELS
Zbigniew Siemiatkowski, Mirosław Rucki, Dmitrij Morozow, Robert Martynowski, Alexander Shelkovoy, Yury Gutsalenko
.....18
3. ROD CURVES AND CURVE FAMILIES GENERATED BY A R-PRR-RPP-RPR TYPE MECHANISM
Iulian Popescu, Liliana Luca
.....23
4. GEOMETRIC AND KINEMATIC OF SERIAL ROBOT
Ovidiu Antonescu, Mariana Trofimescu, Păun Antonescu
.....31
5. THE BRAKING MECHANISMS USED TO WAGONS AND LOCOMOTIVES
Ovidiu Antonescu, Mariana Trofimescu, Păun Antonescu
.....37
6. AUXILIARY ELEVATOR ACTIVATED WITH A TRANSLANTING CAM MECHANISM USED FOR SERVING AN OVERGROUND SMART PARKING LOT ABOVE THE DAMBOVIȚA RIVER. CALCULATION OF THE BUCKLING CRITICAL LOAD OF A ROD PERTAINING TO A ROLLER TRASLATING FOLLOWER
Carmen Elisabeta Radu, Edward Rășchitor, Iosif Tempea
.....42
7. ANTI-VIBRATION INSULATION POSSIBILITIES OF THE OVERGROUND PARKING OVER THE DAMBOVITA RIVER. ANTISEISMIC PROTECTION SYSTEMS
Edward Rășchitor, Carmen Elisabeta Radu, Iosif Tempea
.....47

8. CURVES AND FAMILIES OF ROD CURVES GENERATED BY A R-RRP-RRP-RPR TYPE MECHANISM	
<i>Liliana Luca, Iulian Popescu</i>	
.....	53
9. DESIGNING A CAGE WITH TWO STOREYS FOR THE UNIREA SHAFT FROM THE SLĂNIC PRAHOVA SALINE	
<i>Răzvan Bogdan Itu, Iosif Dumitrescu</i>	
.....	59
10. THE STUDY OF ADAPTATION OF THE METALIC TOWER IN ORDER TO MAKE TWO EMBARKING RAMPS FOR THE TOURISTS AT THE UNIREA SHAFT FROM THE SLĂNIC PRAHOVA SALINE	
<i>Iosif Dumitrescu, Vilhelm Itu</i>	
.....	65
11. CONSIDERATIONS ON THE MAINTENANCE AND REPAIR ACTIVITIES OF A SUB-ASSEMBLY OF A MINING EQUIPMENT	
<i>Cîrîfnă Liviu Marius, Penka Zlateva, Rădulescu Constanta, Stăncioiu Alin</i>	
.....	71
12. REHABILITATION OF A MOVABLE BALAST CONTAINER OF A COAL EXTRACTION MACHINE M4A	
<i>Cîrîfnă Liviu Marius, Rădulescu Constanta, Stăncioiu Alin</i>	
.....	75
13. THE CRITERIA OF EXTENDED TENSION IN THE FRETTING PHENOMENON	
<i>Stefan Ghimiși</i>	
.....	79
14. THE DANG VAN FATIGUE CRITERION OF THE FRETTING PHENOMENON	
<i>Stefan Ghimiși</i>	
.....	83
15. ABOUT 3D PRINTING LATEST DEVELOPMENTS	
<i>Cătălin Iancu</i>	
.....	89
16. THE INFLUENCE OF THE DESIGN OF PIPES USED IN THE ENERGY INDUSTRY ON THE SLOWLY OF EROSION / CORROSION PROCESSES	
<i>Florin Ciofu</i>	
.....	93
17. LASER CUTTING OF SOFT STEEL IN INDUSTRIAL PARTS MANUFACTURING	
<i>Gîrdu Constantin Cristinel, Drăgoi Mircea Viorel, Mileșan Mihaela, Rădulescu Constanța</i>	
.....	99
18. MODELING AND STUDY OF LASER CUTTING OF SOFT STEEL IN INDUSTRIAL PARTS MANUFACTURING	
<i>Gîrdu Constantin Cristinel, Drăgoi Mircea Viorel, Mileșan Mihaela, Rădulescu Constanța</i>	
.....	105
19. PROPERTIES AND APPLICABILITY OF SOME COMPOSITE MATERIALS	
<i>Cătălina Ianăși</i>	
.....	111

20. DEPENDENCE BETWEEN THE HARDNESS OF A COMPOSITE MATERIAL AND THE MODE OF THE FORCE APPLICATION <i>Minodora Maria Pasăre</i>	115
21. PROCESSES IN STRENGTHENED ABOUT THE PSEUDOALLOYS <i>Cristina Ionici</i>	119
22. CONSIDERATIONS ON MICROSTRUCTURE AND MECHANICAL PROPERTIES <i>Cristina Ionici</i>	123
23. ASCERTAINING THE TECHNICAL STATE OF THE "TRIPOD" ASSEMBLY OF A MINING EQUIPMENT - PART I <i>Rădulescu Constanta, Cîrînă Liviu Marius, Stăncioiu Alin</i>	127
24. ASCERTAINING THE TECHNICAL STATE OF THE "TRIPOD" ASSEMBLY OF A MINING EQUIPMENT - PART II <i>Rădulescu Constanta, Cîrînă Liviu Marius, Stăncioiu Alin</i>	131
25. STANDARD-COST METHOD - ARGUMENTATION AND COST TRACKING IN THE INDUSTRY OF BUILDING MACHINES <i>Nioață Alin</i>	135
26. EXPERIMENTAL DETERMINATION OF KINEMATIC PRECISION OF POSITIONING OF A DOUBLE HARMONIC TRANSMISSION <i>Sava Ianici, Draghița Ianici,</i>	139
27. REHABILITATION OF HELICAL ASSEMBLY (WHEEL BRACKET CUP HOLDER) COAL EXTRACTION MACHINE M4A PART I <i>Stăncioiu Alin Cîrînă Liviu Marius, Rădulescu Constanta,</i>	145
28. REHABILITATION OF HELICAL ASSEMBLY (WHEEL BRACKET CUP HOLDER) COAL EXTRACTION MACHINE M4A PART II <i>Stăncioiu Alin Cîrînă Liviu Marius, Rădulescu Constanta,</i>	149