

SECTION "D"

1. **V. F. Ivanov, G. N. Bagautdinov;** *Kirovograd National Technical University, Kirovograd, Ukraine;* **Electric Detonation Carbonizing and Boronizing of Iron**
2. **V. A. Malashenko, A. L. Naumenko;** *State University of Sea Transport, Odessa, Ukraine;* **Regarding Possibility for Estimation of Medium Influence for Parameters of Cracking Resistance of Materials Using Data of Testing of Smooth Specimens for Slow Stretching**
3. **N. L. Gorynin, F. K. Nurofenov, V. A. Morozov;** *A. A. Galkin Donetsk Physicotechnical Institute, National Academy of Sciences of Ukraine, Donetsk, Ukraine;* **Anticorrosive Cladding. Accumulated Experience of Application and Methods of Improvement**
4. **T. M. Bosenko, V. B. Veselovskiy, D. Tkalčić*;** *Dnepropetrovsk National University, Dnepropetrovsk, Ukraine, *Sisak, Croatia;* **Mathematical simulation of heat conductivity problems for component sodies at extreme influences taking into account thermal memory**
5. **A. I. Berlov, V. B. Veselovskiy, R. Križanić*;** *Dnepropetrovsk National University, Dnepropetrovsk, Ukraine, *Faculty of Metallurgy, University of Zagreb, Sisak, Croatia;* **Optimization of the thermal modes of component heatcover constructions**
6. **V. V. Veselovskiy, V. A. Syasev, I. Mamuzić*, V. B. Veselovskiy;** *Dnepropetrovsk National University, Dnepropetrovsk, Ukraine, *Sisak, Croatia;* **Determination of contact thermal resistances at extreme thermal influences**
7. **O. O. Kochubey, I. Mamuzić*, M. V. Polyakov, D. V. Yevdokymov;** *Dnepropetrovsk National University, Dnepropetrovsk, Ukraine, * Faculty of Metallurgy, University of Zagreb, Sisak, Croatia;* **Mathematical modeling of thermal pollution of environment**
8. **V. N. Haidukov, V. N. Kolesnik, N. V. Ignatov, O. V. Chistikova, E. I. Sulimenko;** *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine;* **The current state, problems and future trends of the recycling of ferriferous wastes metallurgical repartition**
9. **Ye. V. Krukov;** *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine;* **Complex Research of the Pacific Polymetallic Nodules**
10. **M. V. Levin, G. P. Stovpchenko, Yu. M. Grishchenko;** *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine;* **Critical metals recovery from acid etching and galvanic solutions**
11. **O. Bezuglaya, V. Prutchikova, G. Stovpchenko;** *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine;* **Combination of the language professional and the metallurgist: Utopia or Reality?**
12. **V. Khandetskyy, A. Derevyanko;** *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine;* **Non-contact measurements of electrical conductivity of powdered materials in eddy magnetic field**
13. **O. Chygyrynets', G. Gonchar;** *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine;* **Efficient anticorrosion filler for primers for protection of rust metal surface**
14. **A. A. Kavats, A. I. Derevyanko;** *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine;* **The chaotic modes are in the multilinked nonlinear systems**

15. **I. Mikhalyov, Y. O. Kaliberda;** *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine;* **Security system creation of the corporative networks of metallurgical enterprises on the basis of artificial immunity systems**
16. **Ye Kvyatkovsky, A. I. Derevjanko;** *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine;* **Edge detection for scaling raster images**
17. **V. G. Zaytsev;** *Dnepropetrovsk National University, Dnepropetrovsk, Ukraine;* **Boundary synthesis of optimum control in problems with free border**
18. **A. I. Mikhalyov, Y. A. Vodolazsky;** *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine;* **Quality control steel products through multifractal rapid analysis**
19. **D. E. Kozenkov, L. U. Sidorenko;** *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine;* **Quality Levels of Industrial Manufacture and its Estimation within Management of Enterprise Quality**
20. **D. E. Kozenkov, L. U. Sidorenko;** *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine;* **Estimation of Quality of Industrial Products**
21. **D. E. Kozenkov, L. U. Sidorenko;** *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine;* **Scheme of Competition Concept Formation and Methods to Determine its Sphere**
22. **A. I. Karakash, J. V. Sviridenko, U. G. Efimenko, K. V. Shmat;** *National Metallurgical Academy of Ukraine, Dnepropetrovsk, Ukraine;* **Management of surface sinter components properties by their restructuring**
23. **F. Trebuňa, F. Šimčák, M. Buršák*, J. Bocko, P. Šarga, M. Pástor, P. Trebuňa;** *Faculty of Mechanical Engineering, Technical University of Košice, Košice, Slovakia, *Faculty of Metallurgy, Technical University of Košice, Košice, Slovakia;* **The strain gage method for determination of input working life parameters of pipes in compressor stations**
24. **E. Kormaníková, I. Mamuzić*;** *Faculty of Civil Engineering, Technical University of Košice, Košice, Slovakia, *Faculty of Metallurgy, University of Zagreb, Sisak, Croatia;* **Buckling analysis of a laminate plate**
25. **K. Pukanská, M. Fraštia*;** *Faculty of Civil Engineering, TU Bratislava, *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **Testing of laser scanner technology on the bellfoundry artifacts**
26. **L. Hvizdák, J. Hvizdáková, M. Molokáč;** *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **Mining and metallurgy in Gemer during Middle Ages as object of tourism**
27. **L. Hvizdák, J. Hvizdáková, M. Molokáč;** *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **Smolník as important mining and metallurgy centre in the past**
28. **L. Hvizdák, J. Hvizdáková, M. Molokáč;** *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **Mining and metallurgy history of city Gelnica and its exploitation in geotourism**
29. **K. Verčimáková;** *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **The cinnabar as the first mineral in Slanské vrchy**
30. **D. Marasová, V. Molnár, G. Fedorko;** *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **Steel wire ropes - carrier elements of transport equipment**
31. **L. Molokáčová;** *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **Goldsmith's trade in Slovakia**

32. **Pandula, K. Jelšovská;** *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **New Criterion of Evaluating ground Vibration of the Blasting in Quarries**
33. **T. Sasvari, J. Durove, B. Pandula, P. Vavrek, J. Kondela;** *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **Stability of rock massif determination from underground coal gasification point of view**
34. **P. Vavrek;** *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **Mechanical properties magnesite on the deposit Jelsava**
35. **E. Mihaliková, D. Malindžák, K. Štangová;** *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **Financial flow as a part of business logistics**
36. **E. Mihaliková;** *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **An Application of simulation access in formation of the model of financial direction**
37. **Ž. Kuzevičová, V. Hurčíková;** *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **Location selection for exploitation of solar energy with GIS tools in the Košice – basin**
38. **Ž. Kuzevičová, V. Hurčíková, Š. Kuzevič;** *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **Location Selection for exploitation of geothermal energy with GIS tools in the Košice – basin**
39. **V. Hurčíková, S. Molčíková, Ž. Kuzevičová;** *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **3D modelling, visualization and testing of Bukovec dam**
40. **V. Hurčíková, S. Molčíková, Ž. Kuzevičová, Š. Kuzevič;** *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **Noise propagation in the built – up area in GIS environment**
41. **Š. Kuzevič, P. Rybár;** *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **Novel Potential determination of Geothermal Energy utilization of Slovakia**
42. **Š. Kuzevič, P. Rybár;** *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **Possibilities of geothermal resources utilization for power purposes**
43. **Š. Kuzevič, P. Rybár;** *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **Environment of Physical Modelling for exploitation of the Enhanced Geothermal System**
44. **E. Šaršaňová, M. Šimčák;** *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **Three dimensional visualization of the Main Street of the Košice City**
45. **E. Šaršaňová;** *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **Application digital technical map of Košice city in conditions cities systems**
46. **K. Pukanská, M. Fraštia, J. Sabová;** *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **Observation of morphological terrain changes with using terrestrial laser skener and digital photogrammetry**
47. **P. Blišťan;** *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **Modelling of Geological Phenomena in GIS (Geographical information system)**
48. **Kirov, P. Blišťan;** *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **Modelling natural phenomena in the GIS environment**
49. **P. Blišťan, E. Kožiaková;** *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **ArcGIS utilization by modeling of geological deposit bodies**
50. **J. Koščo, L. Domaracká, M. Rybárová;** *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **Present methods of seabed polymetallic nodules extraction**

51. **L. Vizi, M. Sofranko;** *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **Positive influence of planning and controlling of mining process on qualitative parameters of the recovered ore from mineral deposit**
52. **A. Csikósová, K. Kameníková, M. Antošová, A. Seňová, K. Teplická;** *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **Using of energetic management for decreasing of energy cost**
53. **Csikósová, K. Kameníková, M. Antošová;** *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **Economic assessment of Slovak magnesite processing on the environment**
54. **T. Schuchmann;** *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **World and European Union oil analysis**
55. **T. Schuchmann;** *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **World natural gas review**
56. **T. Schuchmann;** *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **Coal in European Union**
57. **J. Gašinec, S. Gašincová;** *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **Adjustment of positional geodetic networks by robust estimations**
58. **M. Gergeľová, B. Kirov;** *BERG Faculty, Technical University of Košice, Košice, Slovakia;* **Digital modelling of floods**
59. **R. Lujčić, T. Šarić, G. Šimunović;** *Mechanical Engineering Faculty, University of Osijek, Slavonski Brod, Croatia;* **Application of genetic algorithm to the technological operations scheduling problem**
60. **M. Marić, I. Samardžić*, Š. Klarić*;** *Reparation and Production of Railway Vehicles Ltd., *Mechanical Engineering Faculty, University of Osijek, Slavonski Brod, Croatia;* **Application of thermal spraying in railway wagon shafts repairing**
61. **T. Šarić, V. Galzina, R. Lujčić, G. Šimunović;** *Mechanical Engineering Faculty, University of Osijek, Slavonski Brod, Croatia;* **Intelligent Predictive Decision Support System for Maintenance**
62. **Blažević, A. Vuković, T. Mikac;** *Faculty of Engineering, University of Rijeka, Rijeka, Croatia;* **Intelligent agents application within the system for rolling mill production**
63. **Blažević, A. Vuković, T. Mikac;** *Faculty of Engineering, University of Rijeka, Rijeka, Croatia;* **Algorithm for prevention of molten steel sticking onto mold in continous casting process**
64. **Z. Car, B. Barišić, M. Ikonić;** *Faculty of Engineering, University of Rijeka, Rijeka, Croatia;* **Cnc turning center ga based optimization**
65. **Z. Car, B. Barišić, M. Kršulja;** *Faculty of Engineering, University of Rijeka, Rijeka, Croatia;* **Machining center efficiency optimization based on evolutionary algorithm**
66. **N. Fafandjel, M. Perinić, A. Zamarin;** *Faculty of Engineering, University of Rijeka, Rijeka, Croatia;* **New approach to shipbuilding production process design**
67. **Džambas, A. Vuković, T. Mikac;** *Faculty of Engineering, University of Rijeka, Rijeka, Croatia;* **Direct numerical control as influent factor on productivity**
68. **Džambas, A. Vuković, M. Ikonić;** *Faculty of Engineering, University of Rijeka, Rijeka, Croatia;* **Software support in planning of complex manufacturing systems**
69. **M. Ikonić, T. Mikac, M. Perinić;** *Faculty of Engineering, University of Rijeka, Rijeka, Croatia;* **Planning of material consumption in serial production of the castings**

70. **M. Ikonić, B. Barišić, D. Blažević; Faculty of Engineering, University of Rijeka, Rijeka, Croatia; Identification and quantification of raw materials during designing of cast producing process**
71. **M. Ikonić, I. Džambas, D. Blažević; Faculty of Engineering, University of Rijeka, Rijeka, Croatia; Choosing of production system model**
72. **M. Ikonić, T. Mikac, I. Džambas; Faculty of Engineering, University of Rijeka, Rijeka, Croatia; Process method of grouping the workpieces**
73. **M. Kršulja, B. Barišić, Z. Car; Faculty of Engineering, University of Rijeka, Rijeka, Croatia; Optimization of 3-2-1 clamping method in milling operations.**
74. **M. Perinić, S. Maričić, A. Zamarin; Faculty of Engineering, University of Rijeka, Rijeka, Croatia; A genetic algorithm approach in cellular manufacturing**
75. **S. Žic, I. Džambas, M. Ikonić; Faculty of Engineering, University of Rijeka, Rijeka, Croatia; Possibilities of implementing bimetallic hammer castings in crushing industries**
76. **A. Zamarin, M. Perinić, N. Fafandjel; Faculty of Engineering, University of Rijeka, Rijeka, Croatia; Application of genetic algorithm to structural optimisation of ship hull**
77. **Vuković, D. Blažević, I. Džambas; Faculty of Engineering, University of Rijeka, Rijeka, Croatia; The group technology concept**
78. **Vuković, M. Ikonić, D. Blažević; Faculty of Engineering, University of Rijeka, Rijeka, Croatia; Entity annotation system applied in the technological casting process**
79. **D. Bajić, B. Lela, D. Živković; Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture, University of Split, Split, Croatia; Modeling of machined surface roughness and optimization of cutting parameters in face milling**
80. **N. Fafandjel, A. Zamarin, R. Rubeša; Faculty of Engineering, University of Rijeka, Rijeka, Croatia; Mathematical model for steel vessel production costs structure optimization.**
81. **R. Rubeša, T. Mikac, A. Zamarin; Faculty of Engineering, University of Rijeka, Rijeka, Croatia; Throughput for steel pipes manufacturing process design**
82. **V. M. Gruzman, N. A. Gerasimenko; Ural State Technical University-UPI, N. Tagil, Russia; The Research and development of a protective covering**
83. **E. Uskova, T. A. Kasatkina; Moscow State Institute of Steel and Alloys, Moscow, Russia; Improvement in the organization forms of the innovation advance into the practice of metallurgical companies**
84. **Bartonova; VŠB-Technical University of Ostrava, Ostrava, Czech Republic; Environmentalism in Metallurgy**
85. **Ž. Vukelić, P. Fajfar; Faculty of Natural Sciences and Engineering, University of Ljubljana, Ljubljana, Slovenia; High-pressure storage of gas in closed coalmine senovo-steel lining concept**
86. **Kosec, S. Senčič*, B. Karpe; Faculty of Natural Sciences and Engineering, University of Ljubljana, Ljubljana, Slovenia, *Kova d.o.o., Celje, Slovenia; Foundry total waste management**
87. **M. Górska, R. Budzik, L. Szecówka; Department of Production Management and Logistics, Czestochowa University of Technology, Czestochowa, Poland; The influence of changes of combustion gas temperature during flow around of horizontal cylinder on local nu number**
88. **M. Górska, L. Szecówka, R. Budzik; Department of Production Management and Logistics, Czestochowa University of Technology, Czestochowa, Poland; The**

- numerical modeling of convective heat transfer during oscillation disturbance combustion gas flow around horizontal cylinder**
89. **Z. Skuza, C. Kolmasiak, R. Budzik, R. Prusak;** *Department of Production Management and Logistics, Częstochowa University of Technology, Częstochowa, Poland;* **Possibilities of utilization of metallurgical slags in the conditions of polish economy**
 90. **Kolmasiak. Z. Skuza, R. Prusak;** *Department of Production Management and Logistics, Częstochowa University of Technology, Częstochowa, Poland;* **Quality and economic effectiveness factors in the gas nitriding process**
 91. **R. Prusak, A. Prusak, C. Kolmasiak, Z. Skuza;** *Department of Production Management and Logistics, Częstochowa University of Technology, Częstochowa, Poland;* **Improvement processes of strategic management in industry enterprise**
 92. **Staniewska;** *Department of Production Management and Logistics, Częstochowa University of Technology, Częstochowa, Poland;* **The analysis of productive activity of metallurgical enterprise**
 93. **A. Fornalczyk, M. Saternus;** *Department of Metallurgy, The Silesian University of Technology, Katowice, Poland;* **Removal of platinum group metals from used auto catalytic converter**
 94. **B. Gajdzik;** *Faculty of Materials Science and Metallurgy, The Silesian University of Technology, Katowice, Poland;* **Social and ethical challenges for metallurgical companies**
 95. **B. Gajdzik;** *Faculty of Materials Science and Metallurgy, The Silesian University of Technology, Katowice, Poland;* **Concentration on knowledge and change management at metallurgical company**
 96. **Cristea;** *Politechnical University of Bucharest, Bucharest, Romania;* **Quality management in the materials engineering**
 97. **V. Hotea, Ana-Irina Smical;** *North Univeristy of Baia Mare, Baia Mare, Romania;* **The removal of ammonium ion from aqueous solutions by natural romanian (barsana) zeolites usage in order to improve the environmental quality**
 98. **Pop, N. Băncilă, R. Pop,** *North Univeristy of Baia Mare, Baia Mare, Cuprom Sa Bucuresti, Romania;* **The use of the geosynthetic materials for the antierosional protection of the metallurgical tailing dumps**
 99. **V. Kravchuk, B. S. Karpinos, K. P. Buyskikh, V. G. Barylo;** *G. S. Pisarenko Institute for Problems of Strength, National Academy of Sciences of Ukraine, Kyiv, Ukraine;* **Method of Remaining Life Prediction for Backup Rolls of Metallurgical Equipment**
 100. **V. Kravchuk, K. P. Buyskikh, Ye. A. Zadvornyy, B. S. Karpinos, S. G. Kiselevskaya;** *G. S. Pisarenko Institute for Problems of Strength, National Academy of Sciences of Ukraine, Kyiv, Ukraine;* **Information Database on In-Service States of Structural Elements of Rolling Mills**
 101. **D. Constantinescu, A. Nicolae, E. Sirbu*;** *University Politehnica of Bucharest, Bucharest, Romania; *Research and Development Institute for Nonferrous and Rare Metals, Bucharest, Romania;* **Impact and Connections between Metallurgical systems and the Environment**
 102. **Gajdzik;** *Faculty of Materials Science and Metallurgy, The Silesian University of Technology, Katowice, Poland;* **Total productive maintenance in steelworks plants**
 103. **Weiss, G. Fedorko, P. Futáš*, A. Pribulová*, I. Vasková*;** *BERG Faculty, Technical University of Košice, Košice, Slovakia, *Faculty of Metallurgy, Technical*

- University of Košice, Slovakia; Dependence of qualitative properties for cast iron on used raw materials*
104. **Z. Hajduová, E. Weiss, L. Mixtaj;** *BERG Faculty, Technical University of Košice, Košice, Slovakia; Application of statistical methods at copper wire manufacturing*
 105. **A. Csikósová, K. Kameníková, M. Antošová, A. Seňová, K. Teplická;** *BERG Faculty, Technical University of Košice, Košice, Slovakia; A potential of renewable energy sources and the forms of their grant support in regional policy in Slovakia*
 106. **O. Kochubey, M. Jurković*, I. I. Tkachenko, D. V. Yevdokymov;** *Dnepropetrovsk National University, Dnepropetrovsk, Ukraine, *Technical Faculty, University of Rijeka, Rijeka, Croatia; Numerical calculation of heating of complex shape solid body by boundary*
 107. **O. Kochubey, I. Mamuzić*, T. E. Smolens'ka, D. V. Yevdokymov;** *Dnepropetrovsk National University, Dnepropetrovsk, Ukraine, *Faculty of Metallurgy, University of Zagreb, Sisak, Croatia; High temperature handling of metal products*
 108. **O. Kochubey, I. Mamuzić*, M. V. Polyakov, D. V. Yevdokymov;** *Dnepropetrovsk National University, Dnepropetrovsk, Ukraine, *Faculty of Metallurgy, University of Zagreb, Sisak, Croatia; Application of computational models in metallurgical investigation*
 109. **Valíček, S. Hloch*;** *Technical University of Ostrava, Ostrava-Poruba, Czech Republic, *Faculty of Manufacturing Technologies, Technical University of Košice, Prešov, Slovakia; Hydroabrasive divisibility of materials*
 110. **B. Gajdzik;** *Faculty of Science and Metallurgy, The Silesian University of Technology, Katowice, Poland; Environmental aspects, strategies and waste logistic system based on the example of metallurgical company*