Table of contents

Vitaliy Baranov: The methanol conversion automobile reactor laboratory tests results	3
Oleksiy Chesnokov: Researches of production of the spatially reinforced carbon-carbon composition	8
Inessa Deyneka, Anatoliy Mychko, Galina Ripka: Identification of vegetable origin fibers for children's clothes	15
Dmitry Dmitrienko, Sergey Lenich: Modeling the motion of particles in the pneumatic transport mills	19
Oleg Druz, Svetlana Gitnaya: Accounting of arc welding process specificity in innovative technologies	24
Alexander Golubenko, Alexander Kostyukevich, Ilya Tsyganovskiy: An influence of adhesion model on the results of locomotives dynamics simulation	30
Sergey Grebyonkin, Victor Ryabitchev, Vladimir Pavlysh, Artem Tishchenko, Yuriy Tishchenko: Conceptual bases of the organizational and technological providing ecologically of safe mining production	35
Vladimir Gromenko, Sergey Krivonosov, Alex Snizhko: X-raystructural research of products of cavitational erosion of metals	41
Elizabeth Gusentsova Influence of aerodynamic characteristics on the heat exchanging in the cooling system	46
Yuri Gutko, Yuri Svinoroev, Vladimir Kostrub: Theoretical aspects and practical recommendations for use of methods of binding materials modification and mechanical treatment to solve technological and ecological production problems	51
Andrey Kireev, Irina Kirichenko: Perfection of methods of determination of type of defect at the ultrasonic control of elements of rolling stock of railways	58
Irina Kirichenko, Oleksandr Strilets, Mykola Koshovy: Piezo actuators injector of Common Rail fuel injection system	62
Yuriy Kozub, Galina Kozub: Graphic presentation of results of calculations by calculable complex «Mirela +»	68
Alexander Krajniuk, Alexander Danileychenko: The cascade pressure exchange reactive rotetion disk engine creation reasons	73
Alexandr Kravchenko, Vladimir Verbitskii, Valeriy Khrebet, Nataliya Velmagina: Steerability and stability of automobile non-linear model	77
Valerie Lahno: Information security company in a DOS (DDOS) attack	84

Volodymyr Lyfar: Database of hazardous substances properties	90
Valeriy Maletkin, Oleg Druz, Lydmila Maletkina: Investigation of the influence of catastrophes on human vital activity	94
Igor Malkov, Gennadiy Sirovoy, Igor Nepran, Sergey Kashkarov: The calculation method of small-sized composite enclosures in CAD/CAE systems	100
Dmitriy Marchenko: Grounding of the frequency range choice in the system of monitoring of the operation reliability of the technical systems	105
Olga Mokshina, Nikolay Riabchykov: Prediction of quality of sewing department under unsteady operating mode change	109
Maryna Morneva, Vladimir Gavrysh, Nataliya Kuzmenko: Calculation of calibration force of gear teeth by expanding with cone-shaped punch	114
Maxim Pronin: The mathematical model of the traction force coefficient of the conveyor on an air cushion with sloping round channels	117
Olga Rossoshanska, Natalia Lyashenko: Method and models of block-rank analysis of the value factors as indicators of economic security and efficiency of the management of the intangible component of the value of the science-based project-oriented enterprises	122
Ksieniya Sieriebriak: Information technologies in Ukraine: problems and obstacles	128
Tatiana Shinkareva, Anatoly Gedrovich: The development of means for dust cleaningas an important direction for air improvement in the foundry	136
Maxim Slobodyanyuk, Michail Gribinichenko: Theoretical basis of automobile freight system with changeable trailers	140
Maxim Slobodyanyuk, Elena Lapaeva: Development of transit and socio - economical potential of eastern Ukraine on the example of Lugansk region	143
Valery Starchenko, Vyacheslav Burjak: Thermoelastic contact problem for the elastic half-space	148
Dmitry Syomin, Yaroslav Maltsev, Marina Maltseva: Research of influence of brake device on dynamic properties of electro-pneumatic valve	151
Igor Tararychkin, Gregory Nechayev, Maxim Slobodyanyuk: Structural synthesis of pipeline transportation of industrial enterprises	155
Uriy Tihonov, Vitaliy Semenkov, Genadiy Mogilnuy: Computer-aided design of electronic courses	159
Grigory Yakovlev, Grigory Pervushin, Galina Fedorova, Irina Maeva, Igor Pudov, Alexander Korzhenko, Javyga Keriene: Modification of cement matrixes with dispersion of multilayer carbon nanotubes	163
Natalya Zhizhkina: The researches of influence of thermal treatment to structure and properties of core of rolls with layer of high alloyed cast iron	169