



BULLETIN

SUKHOI STATE TECHNICAL UNIVERSITY OF GOMEL

SCIENTIFIC-PRACTICAL JOURNAL
HAS BEEN PUBLISHED SINCE MARCH 2000 2(89)' 2022

Editor-in-chief

A. V. PUTSIATA

Vice-editor

A. A. BOIKO

Executive secretary

A. S. RIABTSEVA

Editorial board:

O. D. Asenchik, M. N. Vereshagin, V. A. Golub,

N. V. Gruntovich, A. G. Gurko, N. P. Dragan,

V. V. Kirienko, V. A. Kovtun, V. P. Kudin,

M. I. Mihailov, V. V. Muliak, I. A. Murashko,

N. K. Myshkin, A. A. Pankov, E. N. Poddenezhny,

V. D. Poroshin, A. V. Sychov, N. V. Sychova,

S. I. Timoshin, A. S. Titlov, P. A. Hilo, N. N. Himich,

O. N. Shablovsky, V. M. Shapovalov, A. P. Shevlyukov

Address of editorial board: Pr. Octabria, 48, 246746, Gomel, the Republic of Belarus
Tel./fax +375 232 214 373. E-mail: nich@gstu.by

CONTENT

Mechanical Engineering and Machine Science

Mikhailov M. I., Lapko O. A., Teterich N. E., Glazenkova E. S. Research of the Influence of the Contact Conditions of the Tool on its Stressed-Deformed State 5

Materials Science

Zlotnikov I. I., Hilo P. A. Role of Polymer Mixtures Comparators in Terms of Electromagnetic Theory of Molecular Forces 12

Nikityuk Y. V., Baevich G. A., Myshkovets V. N., Maksimenko A. V., Aushev I. Y. Optimization of Steel Processing Parameters 12X18H9T Round Laser Beams 17

Power Engineering

Zalizny D. I., Zhukovets S. G. Laboratory-Scale Plant for Research the Characteristics of the Photovoltaic Module 25

Shenets E. L., Kapansky A. A. Method of Distribution of Conditionally Constant Component of Electric Power Consumption during Construction of Multifactorial Mathematical Models of Electric Energy Consumption 35

Shirokov O. G., Alferova T. V., Bakhmutskaya V. V. Assessment of the Impact of Information Technology Equipment on the Indicators of Non-Sinusoidality of the Supply Voltage and Current Consumption 43

<i>Evminov L. I., Alferova T. V. Use of Resistive Grounding of Neutral in Electric Networks 6–35 kV</i>	53
<i>Zditovetskaya S. V. Assessment of Cycle Efficiency of Electrically-Driven Heat Pump with Alternative Refrigerants</i>	68
Electrical Engineering and Electronics Power Engineering	
<i>Kovtun V. A., Pasovets V. N., Tanyrverdi A. M. Continuous Monitoring System for Load-Bearing Structures of Buildings and Constructions</i>	74
Economics and National Economy Management	
<i>Lapitskaya O. V. Theory of Normal Forest and Prospects for its Use in the System of Forest Management and Forest Reproduction</i>	81
<i>Shkabarina A. O. Status and Development Trends of Retail Trade in the Republic of Belarus</i>	91
<i>Pranuza Y. S. Methodological Support of Assessment of the Level of Innovation Activity in the Regions of the Republic of Belarus (on the Example of the Gomel Region)</i>	99
Chronicle of Scientific Life	
<i>Sychova N. V., Boretskaya V. K. Strategy and Tactics of Development of Production and Economic Systems</i>	110
<i>Kirienko V. V., Savenko A. Yu. Belarus in the Modern World</i>	114

- The journal is included in the Register of scientific journals of the Republic of Belarus for publishing the dissertations results on technical sciences – Mechanical Engineering, Material Sciences, Power Engineering (HAC RB order № 101 of 04.06.2005); on economics sciences – Economics and National Economy Management (HAC RB order № 26 of 02.02.2011).
- Published materials are reviewed.
- Authors' opinion does not necessarily the same as of editorial board.
- The reprinting of materials published in the journal is permitted only with the consent of both the author and publisher.
- Indexes for subscribing: for individuals – 00063
for legal parties – 000632