

Issued with the consent of the Rector

**Editor in Chief**  
**Publishing House of Rzeszow University of Technology**  
Lesław GNIEWEK

**EDITORIAL BOARD**

**Editor-in-Chief**  
Grzegorz OSTASZ

**Deputy of Editor-in-Chief**  
Justyna STECKO

**Editorial assistant**  
Elżbieta KURZĘPA

**Associate Editors**  
Eugeniusz MOCZUK, Tadeusz OLEJARZ, Marta POMYKAŁA  
Grzegorz ROSŁAN, Beata ZATWARNICKA-MADURA, Dominik ZIMON

**Scientific Board**  
Alla ARISTOVA (Ukraine), Heinrich BADURA (Austria), Guido BALDI (Germany)  
Aleksander BOBKO (Poland), Zbigniew BOCHNIARZ (The USA), Viktor CHEPURKO (Ukraine)  
Zuzana HAJDUOVÁ (Slovakia), Wilem J.M. HEIJMAN (The Netherlands)  
Tamara HOVORUN (Ukraine), Paweł GRATA (Poland)  
Beatriz Urbano LOPEZ DE MENESES (Spain), Aleksandr MEREZHKO (Ukraine)  
Nellya NYCHKALO (Ukraine), Waldemar PARUCH (Poland), Krzysztof REJMAN (Poland)  
Annely ROTHKEGEL (Germany), Josef SABLİK (Slovakia), Mykoła STADNIK (Ukraine)  
Anatolij TKACH (Ukraine), Michael WARD (Ireland), Natalia ZHYHAYLO (Ukraine)

**Statistical editor**  
Tomasz PISULA

**Language editors**  
E-CORRECTOR  
Magdalena REJMAN-ZIENTEK, Piotr CYREK

**Volume editor**  
Grzegorz ROSŁAN (Poland)

**Project of the cover**  
Damian GĘBAROWSKI

The electronic version of the Journal is the final, binding version.

e-ISSN 2300-9918

Publisher: Publishing House of Rzeszów University of Technology,  
12 Powstańców Warszawy Ave., 35-959 Rzeszów (e-mail: [oficyna@prz.edu.pl](mailto:oficyna@prz.edu.pl))  
<http://oficyna.prz.edu.pl>

Editorial Office: Rzeszów University of Technology, The Faculty of Management,  
10 Powstańców Warszawy Ave., 35-959 Rzeszów, phone: 17 8651383, e-mail: [zeszuty@prz.edu.pl](mailto:zeszuty@prz.edu.pl)  
<http://hss.prz.edu.pl>

Additional information and an imprint – p. 185