

## Spis treści

<b>Volodymyr Bulgakov, Janusz Nowak, Wojciech Przystupa</b>	
Longitudinal vibrations of the sugar beet root crop body at vibrational extraction from soil .....	5
<b>Zbigniew Burski, Joanna Tarasińska</b>	
Testing an influence of the piston mass and height on the vibrations dynamics in the cylinderliner of an agricultural tractor in proecological aspect .....	16
<b>Zbigniew Burski, Joanna Tarasińska</b>	
Research on symptom sensitivity of a mechanical system state in organie dust conditions.....	25
<b>Karol Cupial, Janusz Grzelka, Adam Dużyński, Piotr Grzelka</b>	
The traction survey and monitoring of a vehicle using a satellite navigation system.....	37
<b>Jarosław Czaban, Mikołaj Miatluk</b>	
Identification of static characteristics of a pneumatic regulator of braking forces in vehicles .....	48
<b>Dariusz Dziki, Janusz Laskowski</b>	
Influence of selected factors on wheat grinding energy requirements .....	56
<b>Leszek Gardyński</b>	
Selected aspects of wear of the Caterpillar drive parts.....	65
<b>Tomasz Greczanik, Jarosław Stryczek</b>	
The concept of the bus fluid power system of the mining machine.....	72
<b>Zbigniew Kamiński</b>	
Distribution of breaking forces in two-axle agricultural trailers .....	80
<b>Zbigniew Klernicki</b>	
Some output parameters of indirect injection diesels running on rape biofuel under transient conditions .....	87
<b>Mirosław Kozak, Jerzy Merkisz</b>	
The mechanics of fuel sulphur influence on exhaust emissions from diesel engines.....	96
<b>Andrzej Kuranc</b>	
A continuous measurement of co, co <sub>2</sub> , hc and no <sub>x</sub> at the work of a combustion engine fed with petrol in unstable thermal conditions.....	107
<b>Elżbieta Kusińska</b>	
Impact of storage conditions on geometrical parameters of triticale grain.....	116
<b>Kazimierz Lejda</b>	
Numerical and experimental analysis of injection process in diesel engines for supply system equipped with in-line injection pump .....	125
<b>Rafał Longwic</b>	
Analysis of the chosen parameters of combustion process for a 4C90 engine running in transint conditions with additional loading .....	136
<b>Ryszard Michalski, Arkadiusz Rychlik, Sławomir Wierzbicki</b>	
Hybrid decision-making system .....	144

<b>Marcin Mitrus</b>	
Changes of specific mechanical energy during extrusion cooking of thermoplastic starch .....	152
<b>Krzesztof Olejnik</b>	
Agricultural tractor driver's limitations of visual transmission in aspect of road safety in Poland .....	158
<b>Jan Pawlak</b>	
Tendencies on the Polish tractor market .....	168
<b>Wiesław Piekarski, Grzegorz Dzieniszewski</b>	
Evaluation of the technical state of an engine prc system by means of fumes contents.....	177
<b>Simion Popescu, Ilie Dumitru, Sorin Boruz, Stanisław Sosnowski</b>	
Apparatus and method for experimental research on the dynamics of tractor - front loader sys- tems .....	192
<b>Tomasz Słowiak, Wiesław Piekarski, Halina Pawlak</b>	
Wayside relief and concentrations of selected heavy metals ions caused by motor industry insoil .....	198
<b>Joanna Tarasińska</b>	
Estimation of a small fraction under normality .....	205
<b>Arvids Vilde, Wojciech Tanaś</b>	
Determination of the soilfriction coefficient and specific adhesion .....	212
<b>Stanisław Walusiak, Mieczysław Dziubiński, Wiktor Pietrzyk</b>	
An analysis of hydraulic braking system reliability .....	217
<b>Jacek Wasilewski</b>	
The influence of regulation parameters change in a fuel injection system on NO <sub>x</sub> emission levels in combustion gases of a tractor engine.....	226
<b>Grzegorz Wcisło</b>	
Determination of rapeseed oils combustion heat in calorimeter bomb and an assesment of the heat value .....	233
<b>Anatoliy Yakovenko, Leonid Pietrov, Stanisław Sosnowski</b>	
The possibilites of Caterpillar tractor towards energy-sowing.....	240
<b>Kazimierz Zawiślak</b>	
Efficiency of operation of transportation enterprises at different ownership .....	248
<b>Zbigniew Żebrowski</b>	
Modelling and simulation tests of switching on front drive axle at farm tractor.....	254