

CONTENTS

| | | |
|----|--|----|
| 1. | CHALLENGES FOR ERGONOMICS AND IMPROVEMENT OF WORKING CONDITIONS DURING SURGERIES WITH USE OF LAPAROSCOPIC TOOLS Joanna BARTNICKA | 7 |
| 2. | THE INFLUENCE OF TYPICAL SOURCES OF TRAFFIC NOISE MODELLING METHOD ON THE ACCURACY OF CALCULATIONS OF ACOUSTICS EMISSION Arkadiusz BOCZKOWSKI, Grzegorz KOŹLIK | 18 |
| 3. | EVALUATION OF INNOVATIVE POSSIBILITIES OF PRODUCTION PROCESS IN THE ROLLING MILL Stanisław BORKOWSKI, Manuela INGALDI, Marta JAGUSIAK-KOCIK | 30 |
| 4. | MEANING OF THE QUALITY IN THE PRODUCTION OF MEDICAL PRODUCTS Stanisław BORKOWSKI, Manuela INGALDI, Marta JAGUSIAK-KOCIK | 39 |
| 5. | ISSUE OF MULTIPLE-LAYER WINDING OF ROPES ON DRUMS OF MINE-SHAFT HOISTINGS Jarosław BRODNY, Marcel ŻOŁNIERZ | 49 |
| 6. | MANUFACTURING DATA ACQUISITION IN NON-AUTOMATED PRODUCTION SYSTEMS Grzegorz ĆWIKŁA | 63 |
| 7. | IMPROVING THE EFFICIENCY OF LIME PRODUCTION PROCESS USING FLOCCULANT Beata JAWORSKA, Artur BARTOSIK | 77 |
| 8. | CONVERSION OF THE LANDS DEVASTATED BY MINING ACTIVITY Krzysztof MICHALSKI | 85 |
| 9. | IDENTIFICATION AND MODELING OF EMISSION SOUND SOURCES AT WORK STATIONS Waldemar PASZKOWSKI, Artur KUBOSZEK | 95 |

10. APPLICATION OF COMPUTATIONAL INTELLIGENCE METHODS
IN CONTROL AND DIAGNOSIS OF PRODUCTION PROCESSES
Marcin PERZYK, Jacek KOZŁOWSKI, Krzysztof ZARZYCKI 104
11. NOISE EMISSIONS TEST FROM THE COMMUNICATION ROUTE
– A CASE STUDY
Marek PROFASKA 126
12. THE EFFECT OF HIGH SOLIDS CONCENTRATION
ON THE RHEOLOGY OF LIMESTONE SLURRY
Konrad SARNECKI, Artur BARTOSIK 135
13. MEASUREMENT SYSTEM ANALYSIS OF ATTRIBUTE OR CONTINUOUS
DATA, AS A ONE OF THE FIRST STEPS IN LEAN SIX SIGMA PROJECTS
Maciej WOJTASZAK, Witold BIAŁY 144
14. MOTYVATION AND CONTROL IN TECHNICAL SYSTEMS
Juliusz WÓJCIK 163
15. EMISSION INVENTORY FOR LIGNITE BASED PUBLIC POWER
AND ENERGY SECTOR – MERGING INFORMATION FROM VARIOUS SOURCES
Jarosław ZAWADZKI, Damian ZASINA 186
16. CONCEPT OF A DECISION SUPPORT SYSTEM TO SELECT THE OPTIMAL
CCT SOLUTION FOR A CHOSEN LOCATION IN SILESIA REGION
Barbara BIAŁECKA, Joanna HAUSNER 196