

## CONTENTS

W. Dzurzyński, A. Krach, T. Pałka: Shearer Control Algorithm and Identification of Control Parameters .....	537
W. Korzeniowski, K. Poborska-Młyńska, K. Skrzypkowski: The Idea of the Recovery of Municipal Solid Waste Incineration (MSWI) Residues in Kłodawa Salt Mine S.A. by Filling the Excavations with Self-Solidifying Mixtures .....	553
S. Prusek, M. Turek, J. Dubiński, I. Jonek-Kowalska: Increasing Productivity – a Way to Improve Efficiency of Operational Management in Hard Coal Mines .....	567
J. Juraszek: Hoisting Machine Brake Linkage Strain Analysis .....	583
H. Yang, S. Cao, G. Zhou, Y. Zhao, G. Li, Y. Li, Y. Fan: Natural Filling and Systematic Roof Control Technology for Gob-Side Entry Retaining in Steep Coal Seams. ....	599
Y. Han, J. Cheng, Q. Huang, D.H. Steve Zou, J. Zhou, S. Huang, Y. Long: Prediction of the Height of Overburden Fractured Zone in Deep Coal Mining: Case Study....	617
A. Monika Bożęcka, S. Sanak-Rydlewská: The Use of Ion Exchangers for Removing Cobalt and Nickel Ions from Water Solutions .....	633
S. Xiao, Z. Liu, Y. Jiang, C. Li, C. Sun, L. Su: Remote Pipeline Pumping Transportation of Cemented Tailings Backfill Slurry.....	647
E.J. Sobczyk, M. Kopacz: Assessing Geological and Mining Condition Nuisance and its Impact on the Cost of Exploitation in Hard Coal Mines with the Use of a Multi-Criterion Method .....	665
D. Chlebowski, Z. Burtan, A. Zorychta: Evaluation of Rockburst Hazard Under Abandoned Mine Workings .....	687
K. Stala-Szlugaj: The Demand for Hard Coal for Households in Poland and the Anti-Smog Bill .....	701
J. Miller, J. Schafler, P. Mulligan, R. Eades, K. Perry, C. Johnson: Explosive Dust Test Vessel Comparison using Pulverized Pittsburgh Coal.....	713
K. Godyń, B. Dutka: The Impact of the Degree of Coalification on the Sorption Capacity of Coals from the Zofiówka Monocline .....	727
A. Tajduś, M. Cała, K. Tajduś: Seismicity and Rock Burst Hazard Assessment in Fault Zones: a Case Study .....	747
K. Kryzia, T. Majcherczyk, Z. Niedbalski: Variability of Exploitation Coefficient of Knothe Theory in Relation to Rock Mass Strata Type.....	767
M. Nikzad, A. Asadi, D. Kaveh Ahangaran, A. Bijan Yasrebi, A. Wetherelt, P. Afzal: Blast Fragmentation Classification Using Number-Size (N-S) Fractal Model in Jalal-Abad Iron Mine .....	783