## **Table of Contents**

Study on Application and Mechanism of Alkali Sulfadiazine Neodymium as PVC Heat Stabilizer	
F. Ye, K.J. Guo, S.F. Lu, X.D. Wang, G.Y. Shen, Z.C. Shang, B.B. Li and Q.F. Ye	1
<b>Modification and Application of Materials for Strong Inhibitory Drilling Fluid</b> J. Jun, L. Chen and W. Wei	9
Experimental Study on Dissolution Stability and Dispersion and their Influence on Tribological Properties for Reducing Friction and Prolonging Life of Armored Vehicle Engine Lubricating Oil Additives	1.5
B.L. Fan, A.N. Sun, Z.J. Li, Y.W. Guo, X.W. Qi and C.X. Liu	15
Simulation Study on Energy Recovery and Regeneration of Hybrid Loader Arm H.Y. Mu, Y.L. Luo, Y. Luo and Y. Liu	29
A Hybrid Signal Processing Technique for Identification and Categorization of Faults in	
IEEE-9 Bus System A. Gupta and R. Kumar Pachar	43
Vibration Fatigue Testing Procedure of High Strength MARS 600 Steel Fillet Welds Using Stainless Steel Consumable Electrode I. Men and D. Naroditsky	57
Analysis and Estimation of Seepage through Homogeneous Earth Dams Using Neural Network and Empirical Equation	
M. Chouireb, O.N. Noureddine, A. Djehiche and G. Mostefa	79
Laboratory Studies on the Influence of Ionic Strength on Particle Transport Behavior in a Saturated Porous Medium	
B. Lyacine, K. Nassim and B. Djilali	91
<b>Influence of Modeling Approaches on the Response of a Retaining Wall</b> K. Amar and B. Karim	103
An Analytical Study for Safety Evaluation of Demolition-Assembled Permeable Steel Open- Type Erosion Control Dam	
S.M. Lee and W.Y. Jung	113