

CONTENTS

Allan Thomas

Comparing Predicted Deposit Velocities with Operating Velocities in Four Long
Distance Concentrate Pipelines 17

Beata Jaworska-Józwiak, Artur Bartosik

Determination of the Critical Reynolds Number in a Transitional Flow
of Lime Slurry with the Addition of Deflocculant 31

Emil Bournaski, Viacheslav Berman, Ivan Ivanov, Yavor Chapanov, Tatiana Orehova

Are Floating River Sediments Decreasing on Bulgarian Territory? 41

Nigel Heywood, David Brown

Overview of Slurry Storage Tank Design and Operation
for Hydrotransport Systems 53

Edwin De Hoog, Arno Talmon, Cees Van Rhee

Density Wave Amplification During Hydraulic Transport:
The Effect of Pipeline Design Parameters 71

Nigel Heywood, Brian Zengeni, Dakalo Nekhavhambe, Peter Goosen

Correlation of Viscosity of Un-Flocculated and Flocculated Kaolin Slurries
with Temperature 83

Trevor Jones

Holdup: Its Importance in the Flow of Settling Particle-Laden Liquids 97

Kevin Cronin, Fatemeh Kavousi, Chengbin Tang

Dispersion in the Residence Time of Size-Dispersed Particles in Sedimentation . . 111

Václav Matoušek, Jan Krupička, Tomáš Pícek, Lukáš Svoboda

Segregation in Bimodal Contact/Combined Load: Tilting-Flume Study. 123

Mohsen Monadi, Mirali Mohammadi

On the Total Load Sediment Transport of Urban Wastewater Flows. 133

Qi Yang, Gianandrea V. Messa, Václav Matoušek

Towards the Assessment of the Predictive Capacity of the β - σ Two-Fluid Model
for Pseudo-Homogeneous Slurry Flow in Pipes 147

Givi Gavardashvili, Eduard Kukhalashvili, Natia Gavardashvili Solid Sediments Movement Regulating Innovative Debris Flow Elastic Barrage . . .	161
Arno Talmon, Ebi Meshkati, Floris Van Rees Lessons Learned, and Pitfalls to Avoid in Modern Rheometry	171
Hartmut Eckstädt, Tim Nitzsche, Michael Poehler, Paul Uwe Thamsen Functional Test for Sewage Pumps	183
Arno Talmon, Ebi Meshkati Houska Based Time-Dependent Rheological Model for Flocculated Tailings.	193
Anupam Kumar, Benny Moyls, Ardalan Sadighian, Jason Schaan, R. Sean Sanders Use of Pipeline Pressure Gradients to Monitor Inline Polymer Flocculation of Oil Sand Fine Tailings	207
Weisheng Zou, Haicheng Zhang, Yuheng Chen China's Research and Development of Slurry Pump for Lift Marine Mineral Resources	219
Stuti Mishra, Deo Raj Kaushal Experimental and Numerical Analysis of Iron Ore Slurry Flow Through Pipeline at Very High Concentration	231
Weisheng Zou, Haicheng Zhang, Yuheng Chen An Introduction to Rov Based Intelligent Deep Sea Mining System	247
Jianxin Xia, Qiang Yang, Shen Liu, Guangzhi Liu Parameter Matching of Deep-Sea Polymetallic Nodule Collection Device Based on the Coandă-Effect	255
Ling Xue, Zuchao Zhu, Xianghui Su Numerical Investigation of Particle Transport Hydrodynamics Inside a Water-Iron Sand Jet	271
Huade Cao, Qiang Yang, Jianxin Xia, Xinyu Zhang Effects of Heave Motion on the Dynamic Response of the Blocked Hydraulic Lifting System.	289
Grzegorz Strozik, Marcin Popczyk Filling of Underground Voids with Fly Ash – Water Slurries as a Contribution Into the Reduction of Saline Waters Discharge from Coal Mines Into the Odra River. . .	303

INDEX

Bartosik Artur	31
Berman Viacheslav	41
Bournaski Emil	41
Brown David	53
Cao Huade	289
Chapanov Yavor	41
Chen Yuheng	219, 247
Cronin Kevin	111
Eckstädt Hartmut	183
Gavardashvili Givi	161
Gavardashvili Natia	161
Goosen Peter	83
Heywood Nigel	53, 83
de Hoog Edwin	71
Ivanov Ivan	41
Jaworska-Józwiak Beata	31
Jones Trevor	97
Kaushal Deo Raj	231
Kavousi Fatemeh	111
Krupička Jan	123
Kukhalashvili Eduard	161
Kumar Anupam	207
Liu Guangzhi	255
Liu Shen	255
Matoušek Václav	123, 147
Meshkati Ebi	171, 193

Messa Gianandrea V.	147
Mishra Stuti	231
Mohammadi Mirali	133
Monadi Mohsen	133
Moyls Benny	207
Nekhavhambe Dakalo	83
Nitzsche Tim	183
Orehova Tatiana	41
Picek Tomáš	123
Poehler Michael	183
Popczyk Marcin	303
van Rhee Cees	71
van Rees Floris	171
Sadighian Ardalan	207
Sanders R. Sean	207
Schaan Jason	207
Strozik Grzegorz	303
Su Xianghui	271
Svoboda Lukáš	123
Talmon Arno	71, 171, 193
Tang Chengbin	111
Thamsen Paul Uwe	183
Thomas Allan	17
Xia Jianxin	255, 289
Xue Ling	271
Yang Qi	147
Yang Qiang	255, 289
Zengeni Brian	83
Zhang Haicheng	219, 247
Zhang Xinyu	289
Zhu Zuchao	271
Zou Weisheng	219, 247