

CONTENT

HYDRAULIC AND HEDROELECTRIC ENGINEERING

Soroka M. P., Koretskyi M. K., Riabenko O. A.	Personnel Training of Hydroengineers in NUWMNRU as Integral Part of Ukraine Pow- er Strategy Realisation 3
Potashnyk S. I., Karamushka A. M.	Safe Exploitation of Hydropower Hydrotechnical Constructions in Ukraine at the Present Stage 11
Osadchiy S. D.	Algorithms for Calculating the Water Overflow the Crest or Through the top of Core Stone-earthen Dam 20
Riabenko O. A., Selezov I. T.	The Using od Differential Equations to Describe the Free Surface of Near-critical Hydraulic Regimes of HPS, SHEPS, PS WORK 26
Vainberg O. I.	Strength Analysis of the Power Tunnel Reinforced Concrete Encasement With a Glance to Concrete Behaviour 36
Stefanyshyn D. V., Korbutyak V. M., Trofymchuk O. M.	Some Prospects of Using of Gis-technology to Provide the Reliability and Safety of Hydropower Facilities 47
Hlapuk M. M., Shynkaruk L. A., Bezusyak O. V., Yasinska L. R.	Scientific Support of Hydro Power Enterprises Repairs With Application of Modern Innovative Materials 56
Chernobyl O. E.	Flood Computer Simulation Using Dimen- sional Hydrodynamic Model of River Flow Using Software Complexes MIKE 11, NES- RAS, ISTORIC 68

Lutaev V. V.	The State of Theoretical and Experimental Study of Low-pressure Suction Tube Hydroelectric Power Plant 79
Galych O. O.	Selection of Construction Method of Free Surface Profile Undular Jump 90
Gerasimov G. G., Gerasimov E. G., Ivanov S. Ju.	Mathematical Modeling of Unstressed Closing Device Latches at the end of Pressure Pipeline 97
Stefanyshyn D. V.	Experience and Prospects of Probabilistic Analysis of Reliability and Safety of Hydraulic Structures of HPP and HPSP 108
Volkov A. V., Litvinov V. V., Volkova V. A., Morozova K. M.	Study of Hydro Turbines Starting Regime 123
Yakovleva O. M., Riabenko O. A.	Calculation of the Water Surface Profile of the Gradually-varied Flows With Using of Reduced Law of Conveyance Change 135
Klyuha O. O.	Engineering Solutions for Assessing the Potential of Small hydropower development 145
Mozgovyi A. O.	Probabilistic Assessment of the Risk of Loss Landslide Stability of Concrete dams dneiper cascade hydrosystem 154
Tymoshchuk V. S.	The Use of Mathematical Model for Calculating Movement Waves in the Upper Reservoir HPP 166
Skorobagatko K. V.	Numerical Studies of the Stress-strain State, Strength and Stability of the Upper Reservoir Levee of Dnestrovskaya PSP 174

Sunichuk S. V., Veremchuk A. I.	Study of Modes of Hydraulic Unit Connections Surge Tank With Conduit Hydroelectric Power Plant	184
Suk S. P.	Modern Requirements to Improve the Safety of Projecting Dniester HPSS	193
Filipovych Ju. Ju.	Systems of Bay of Chempumps of the Automated Pumpings Stations (Improvement of Constructions and Method of Calculation) ..	206
Gromadchenko T. V., Martiniuk P. M., Gromadchenko V. Ju.	Modeling of the Effect of Moisture Transfer on the Slope Stability When There is an Upper Reservoir of Hydroelectric Pumped Storage Plant	218
Samojlenko E. G.	Fundamentally New Rotary-blade Hydraulic Turbines	226
Poplavskiy D. M.	Selection Methods of Calculation of Parameters Near-critical Flow	240
Litvinov V. V., Romanovska K. O.	Improvement of Assessment Methods Remaining Lifetime of High-voltage Gas-insulated Switches Dnieper HPP Under Incomplete Input Information	248
Solodkyi O. D.	Using of Modular Water Collection Cleaners at Pumping Stations	256
Radchenko V. V.	Possibility of Upgrading Hydro-generator Excitation System	262
Matvienko A. A.	Method of Determining Seismic Acceleration in the Body and Norock Base of Earth Dam Based on the Wave Theory of Earthquake Resistance	276

Artyukh S. F., Chervonenko I. I.	Mining Storage Plant and Ways to Increase the Effectiveness of their Work 284
Kislyak O. O., Mozhovyi A. O.	Construction the Function of Filtration Back-pressure Distribution on the Soles of the Concrete Gravitational Dams 291
Savchenko A. V.	Joint Use the Wave and Wind Energy in a Single Power Plants 302
Bumarskov S. A.	Experience Hydro-turbines Design for Low-pressure and High-pressure Small HPP 309
Kalinin M. I.	Reconstruction of HPP. Design Features 314
Yevreyenko J. P.	Rational Regime of Work and Exploitation of Pump Stations 318
Kylyushyk A. F., Sheshelidze A. Ch.	Dumping Soil in Water – Method of Construction of Ground Structures 327
Ryzhyi V. N.	Estimation of Possibility of Minihpp's Construction on the Existing Dam in the Case of Dam in Zhytomyr Region and Pecheneg Dam in Kharkiv Region 334
Pshevlotskyi O. V.	Improve the Efficiency Work of Fish Protection Constructions Such as "Floating Zaplaven" for Large Water Intakes 347
Kravchenko M. V.	Experience of Manufacturing PjSC «SVS-Dnepr" on Hydro Power Ukraine 356
Veremchuk A. I., Sunichuk S. V.	Determination of Oscillatory Processes Parameters in Compressed-air Surge Tank of Water Pressure Systems With Pneumatic Tanks by Numerical Method 367