

Monday, August. 14, 2023

Laining hotel

Room Xiang Gang Ting (香港厅) -5th floor

10:00-12:00 Session: Pump-turbines Chair: Yongguang Cheng (Wuhan University)			
Paper ID	Time	Paper Title	Paper Authors
130	10:00-10:15	The influence of the S shaped characteristics of high head pump-turbine on the minimum pressure of draft tube (OL)	ZHANG Meiqin, SU Yanyi, CHEN Jianfu, ZHANG Shubang, WANG Wei, WEI Xianzhu
132	10:15-10:30	The model test research of medium-low specific speed Francis pump-turbine (OL)	Y F Guo, Q B Guo, Z L Liu
36	10:30-10:45	Numerical study on valve closing criterion During Pump-turbine Start-up on Pump Mode	Lingfeng Shu, Yinxia Zheng, Zhongwei He, Jie Fang, Chengjun Li
37	10:45-11:00	Pressure Fluctuation analysis of pump-turbine in turbine mode under the same head condition	Fangfang Zhang, Na Li, Ruofu Xiao, Ran Tao
71	11:00-11:15	Suppression mechanism of transient pressure during the turbine runaway of an ultra-high head pump-turbine	Xiaolong Fu, Jingwei Lv, Deyou Li, Hongjie Wang, Daqing Qin, Xianzhu Wei
123	11:15-11:30	Evolution of Runner Forces during Simultaneous Pump-trip Transient process of Two Pump-turbines	Liu Ke, Cheng Yongguang, Ding Jinghuan, Wang Xi
145	11:30-11:45	Spatial distribution of rigid vorticity in pump-turbine under turbine mode with different guide vane openings	X T YAN, K Kan, Y ZHENG, H X CHEN
106	11:45-12:00	Three-Dimensional Numerical Simulation of Pumped Storage Unit No-Load operation with PID control before Grid-Connected	Junxun Guo, Daqing Zhou
12:00-12:15 Coffee Break			
12:15-14:00 Session: Pump-turbines Chair: Yongguang Cheng (Wuhan University)			
81	12:15-12:30	Research and application of Qingyuan pumped-storage power station multi units control strategy during simultaneous load rejection (OL)	Bushi Zhao, Yumin Peng, Yixi Luo, Hao Zhang, Fanqi Huang
131	12:30-12:45	Analysis of the cause of the 40Hz frequency component in spiral casing of a high head pump turbine	W B Jia, Z W Guan, Q W Liang, Y Liu, Z N Wang, H Cheng, Q Y He
147	12:45-13:00	Analysis of self-oscillation stability of pump-turbine in the S-shaped regions of characteristic curves	X W Chen, X Lai, H Y Chen, Y F Lin, K Liu, Y G Cheng
154	13:00-13:15	Cause Analysis and Mitigation Measures of Vertical Vibration of Head-Cover of a Pump-Turbine	Chen Hongyu, Lin Yunfa, Li Kaiming, Zhang Chao, Zhou Zan, Cheng Yongguang
159	13:15-13:30	Prediction Model for the S-shaped Characteristics of Pump-Turbines and its Application on Runner Design	Zanao Hu, Yongguang Cheng, Demin Liu, Hongyu Chen
14:00-16:00 Lunch			
16:00-18:00 Session: Pump-turbines Chair: Lei Han (Harbin Institute of Technology)			
193	16:00-16:15	Numerical study of rotor-stator interaction in variable speed reversible pump-turbine in turbine mode at low head (OL)	B R Rode, A Kumar, C Segoufin, Y Laurant
166	16:15-16:30	Study on the effect of pressure-balance pipe diameter on the volumetric efficiency of pump turbine (OL)	Yue Lv, Zhengwei Wang, Lingjiu Zhou
171	16:30-16:45	Three-dimensional simulations of load rejection processes of a variable-speed pump-turbine under different initial rotational speeds	Z Y Yang, L J Gong, H Fang, X F Deng, Y H Li, T T Liao

7	16:45-17:00	Study of axial hydraulic thrust and radial force characteristics of a variable speed pump-turbine unit	Lei Wang, Shuang Yu, Linmin Shang, Jingwei Cao, Zhengwei Wang, Xiaobing Liu
181	17:00-17:15	Multi-objective optimal scheduling of multi-energy combined system considering accurate modeling of pumped storage hydropower	Ganggang Liang, Hao Zhang, Pengcheng Guo
184	17:15-17:30	Analysis of stability characteristics of pump-turbine in a pumped-storage power station with large head variation	Li Chengjun, Wang Delou, Zhao Zhiwen, Xiao Liangyu, Chen Shunyi, Gu wenbin, Dai Ran, Liu Yanhong
163	17:30-17:45	Variations of flow patterns and pressure pulsations in variable speed pump-turbine during start-up process	Pengcheng Zhang, Yongguang Cheng, Demin Liu, Jinsheng Zheng, Guofeng Li
6	17:45-18:00	Study on the influence of "S" characteristic of reversible water pump turbine on its stability	Qin Qianfeng, Cai Weijiang, Tao Yingxin, Ding Kechengqi, Zhang Hangrui, Zou Yanze, Zhang Shiqi, Guan Diyu, Ning Zhongli
18:00-18:15 Coffee Break			
18:15-20:00 Session: Pump-turbines Chair: Lei Han (Harbin Institute of Technology)			
235	18:15-18:30	Analysis of flow characteristics of pump turbine under transient conditions of 75% load rejection	Qiang Zhao, Faye Jin, Jiali Cao, Huanyu Wu, Yongyao Luo
241	18:30-18:45	Model experimental study on special frequency of hydraulic pump working condition headcover for ultra-high head pump-turbine	F Z Lin, X L Wang, Z W Guan, J Y Hu, Z N Wang, Q W Liang
262	18:45-19:00	Numerical study on the performance characteristics of a high-head pump turbine based on the GEKO model	L He, Z X Gao, L C Zhao, L He, W P Wang, L Meng, C L Liao
202	19:00-19:15	The pump turbine hydraulic performance research, model test and operation in Yangjiang pumped storage power station	Yang Xiaolong, Wang Huanmao, Liu Ming, Wang Chao
17	19:15-19:30	State of the art of technical background and practicality of pressure balance tubes for pumped storage turbine	Haoyang Wang, Yifeng Zhao, Huan Wei, Jun Qin, Fei Zhang
20:00-22:00 Dinner			

Online connections:

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