

CONTENT

INTRODUCTION	5
PROGRAMME	8
PAPERS:	
F. Hughes, J. Starzmann, A. White University of Cambridge NUCLEATION AND WAKE-CHOPPING IN LP STEAM TURBINES	10
I. Bosdas, M. Mansour, A. Kalfas, R. Abhari, S.Senoo ETH UNSTEADY STATOR ROTOR INTERACTION AND COARSE DROPLET MEASUREMENTS IN THE LAST STAGE OF A LOW PRESSURE STEAM TURBINE WITH SUPERSONIC AIRFOILS AT TIP	28
A. Simon, M. Marcelet, J.-M. Dorey, M. Lance EDF R&D DESCRIPTION OF AN UNSTEADY MODEL FOR LIQUID FILMS IN STEAM TURBINES AND FIRST NUMERICAL RESULTS	44
X. Cai, Y. Xiang, H. Liu, W. Zhou, S. Li, B. Yang University of Shanghai for Science & Technology A NOVEL INTEGRATED IMAGE PROBE AND MEASUREMENTS OF WET STEAM FLOW IN LP TURBINE	56
H. Lee, H. Kim, H. Kim, C. Choi, C. Kim Doosan Heavy Industries and Construction MODELLING OF NON-EQUILIBRIUM CONDENSATION EFFECTS AND ANALYSIS ON FLOW AROUND LONGER BLADES IN LOW-PRESSURE STEAM TURBINE	67
S. Schuster, F.-K. Benra, D. Brillert University of Duisburg-Essen RELIABILITY OF CONDENSATION MODELS FOR DROPLET DEPOSITION CALCULATION IN RADIAL TURBINES	78
S. Dykas, K. Smořka, M.Majkut, M. Strozik Silesian University of Technology ANALYSIS OF THE STEAM CONDENSING FLOW IN A LINEAR BLADE CAS	90
M. Hoznedl, M. Kolovratník, K. Sedlák, L. Bednář, R. Kalista, O. Bartoš, L. Mrózek Doosan Škoda Power FLOW CONDITIONS AT THE LAST STAGE AND IN THE EXHAUST HOOD OF THE TURBINE 1090 MW FOR SATURATED STEAM	102
A. Afzalifar, T. Turunen-Saaresti, A. Grönman Lappeenranta University of Technology NON-REALISABILITY PROBLEM WITH THE CONVENTIONAL METHOD OF MOMENTS IN WET-STEAM FLOWS	117
A. Zaryankin, A. Rogalev, V. Seregin, S. Osipov Moscow Power Engineering Institute MOISTURE EFFECTS ON STEAM FLOW PATTERNS IN CONTROL VALVES OF WET-STEAM TURBINES	135
J. Starzmann et al. University of Cambridge RESULTS OF THE INTERNATIONAL WET STEAM MODELLING PROJECT	146
L. Li, X. Wu, J. Yang, Z. Feng Xi'an Jiaotong University EFFECTS OF LOCATION, SHAPE AND WIDTH OF A SUCTION SLOT ON THE WATER REMOVAL PERFORMANCE OF A HOLLOW STATOR BLADE	171
M. Duřka, J. Hrubý, T. Němec, M. Kolovratník IT CAS Prague CONSISTENCY OF EMPIRICAL CORRECTIONS OF THE CLASSICAL NUCLEATION THEORY FOR NUCLEATION IN STEAM WITH NUCLEATION EXPERIMENTS AND MOLECULAR SIMULATIONS	182
I. Sorokin, V. Gribin, I. Gavrilov, A. Tishchenko, V. Tishchenko, V. Popov, S. Khomyakov, R. Alexeev Moscow Power Engineering Institute FEATURES OF LIQUID PHASE MOVEMENT IN THE INTERBLADE CHANNEL OF NOZZLE BLADE CASCADE	201
J. Halama, V. Hric, M. Pátý Czech Technical University NUMERICAL SIMULATION OF NON-EQUILIBRIUM CONDENSATION OF STEAM IN NOZZLE AND TURBINE FLOWS	212
L. Sova, M. řastný, K. Yun Doosan Škoda Power SIMULATIONS OF CONDENSING FLOW IN NOZZLES	224
O. Bartoš, J. Hrubý, M. Kolovratník Czech Technical University AN EXPERIMENTAL RESEARCH IN THE MOBILE EXPANSION CHAMBER	240
AUTOR INDEX	246