

Contents

P. CYKLIS: Heat transfer in falling film evaporators during the industrial process of apple juice concentrate production	3
P. FURMAŃSKI, K. THUALFAQIR AND P. ŁAPKA: Modelling of a micro-channel heat sink for cooling of high-power laser diode arrays	15
J. KINDRACKI, Ł. MEŻYK AND P. PASZKIEWICZ: Experimental research on the resistojet thruster heater	29
P. ŁAPKA, M. SEREDYŃSKI AND P. FURMAŃSKI: Investigation of thermal interactions between elements of propulsion system and selected parts of the airplane skin in small aircrafts	45
D. ANDRZEJEWSKI, M. ŁĘCKI AND A. GUTKOWSKI: Study of the influence of the lack of contact in plate fin and tube heat exchanger on heat transfer ..	63
D. BANDOŁA, M. ROJCZYK, Z. OSTROWSKI, J. LASZCZYK, D. WALAS AND A.J. NOWAK: Experimental setup and measurements of heat transfer rate during newborn brain cooling process	85
M. PŁACZEK, M. PIETRZAK AND S. WITCZAK: A conductometric method for determining of the upward gas-liquid-liquid three-phase flow	97
H. RUSINOWSKI AND M. PLIS: Mathematical modelling of thermal processes by the use of regression and neural models	111
J.A. STAŚIEK AND M. JEWARTOWSKI: The use of liquid crystal thermography TLC and particle image velocimetry PIV in selected technical applications	129
G. WAŁOWSKI AND G. FILIPCZAK: Hydrodynamics of gas flow through anisotropic porous materials in phenomenological and numerical terms ...	149
P.V. BULAT AND K.N. VOLKOV: Fluid/solid coupled heat transfer analysis of a free rotating disc	169