

Contents

1) Paweł Duda, Maciej Chorowski, Ziemowit Malecha, Jarosław Poliński, Analysis of the feasibility of using Invar process pipes in multichannel cryogenic helium transfer lines based on the second law of thermodynamics	5–13
2) Weronika Janowicz, Michał Pomorski, Piotr Kolasiński Impact of water cooling on photovoltaic modules performance in Polish climate conditions – a case study	15–28
3) Haider Ali, Muhammad Amjad, Muhammad Ishaq, Mohammed Marshad R. Alharbi, Krzysztof Kędzia, Ahmed Zubair Jan Thermal analysis of acetone and water in closed loop pulsating heat pipe	29–37
4) Dariusz Jakubek, Marzena Nowak-Ocłoń, Petar Sabev Varbanov, Maciej Sułowicz The temperature distribution in the ground on the two types of pipes of underground heating network	39–47
5) Wiesław Zima, Artur Cebula, Karol Morański, Jerzy Cisek Concept of a test stand for electricity generation from waste heat using wet steam	49–56
6) Srinivas Reddy Kallem, Siva Reddy Sheri, Alfunsu Prathiba, Gollapalli Shankar Numerical analysis of the effect of chemical reaction and heat source on MHD hyperbolic tangent fluid flow across a non-linear stretching sheet in a porous medium	57–67
7) Amudhini M, Poulomi De Electro-osmotic and magnetohydrodynamic flow of Maxwell nanofluid over Darcy-Forchheimer porous medium with Soret-Dufour effects	69–81
8) Pragya Pandey, Kavitha Dhatchana Moorthy, Lawanya Thangaraju Modelling the heat transfer of nanofluid towards a radiating stretching sheet of varying thickness using thermal flux	83–91
9) Amirul Zaqwan Azman, Norihan Md Arifin, Nur Syahirah Wahid, Mohd Ezad Hafidz Hafidzuddin Heat transfer optimization of MHD unsteady separated stagnation-point flow of a hybrid ferrofluid with heat generation	93–102
10) Huayun Sun Preparation of Mullite Porous Ceramics by the Composite Method of Foaming and Pore-Forming Agent Method	103–109
11) Jan Pokorný, Paweł Madejski, Jan Fišer Sustainable air conditioning with a focus on evaporative cooling and the Maisotsenko cycle	111–121
12) Serhii Molskyi, Oleksandr Molskyi, Anna Vorontsova Increasing the Efficiency of a Vapour Compression Refrigerating Machine through Adiabatic Air Cooling	123–132
13) Javier Uche, Sergio Usón, Juan Anat Gómez Integrated model of a biomass boiler coupled with a Stirling engine	133–141
14) Li Li, Rong Li, Lei Zhang Numerical Study on Nozzle Group Atomization Cooling: Effects of Pressure, Tilt Angle and Spacing on Enhanced Heat Transfer	143–152

15) Ewa Pelińska-Olko, Emilija Zagórska Linear method for the determination of Newton's heat transfer coefficient in the gap under conditions of limited convection	153–165
16) Dan Wu, Yao Wang, Yuezan Tao, Xian Li, Honglei Ren, Qiang Yang A Fast Fourier Transform Solution for 1D Unsteady Heat Transfer Model Bounded by Varying Temperature	167–172
17) Alicja Wiącek, Sebastian Werle, Mariusz Ruszel The impact of the behaviour of individual users in single-family households on the values of internal heat gains in a building.....	173–183
18) Nabil Youssef, Assaad Zoughaib, Valentin Drouet Simplified dynamic heat exchanger models for heat recovery steam generators.....	185–197
19) Shish Ram Dhwal, Rajendra Singh Yadav, Oluwole Daniel Makinde Numerical study of radiating Casson fluid past a permeable stretching sheet in a Darcy-Forchheimer porous medium	199–208
20) Stephanie Lacour, Michel Feidt Gibbs-Duhem equation used to describe uncompensated and apparent heat transfer applied to spray cooling	209–219