
Contents

M. RAVISHA, K.R. RAGHUNATHA, A.L. MAMATHA, AND I.S. SHIVAKUMARA: Boundary effects on electrothermal convection in a dielectric fluid layer ...	3
P. DARNOWSKI, P. FURMAŃSKI AND R. DOMAŃSKI: Relation between thermal conductivity and coordination number for fibre-reinforced composite with random distribution of fibres	21
M. ARCHANA, B.J. GIREESHA AND B.C. PRASANNAKUMARA: Triple diffusive flow of Casson nanofluid with buoyancy forces and nonlinear thermal radiation over a horizontal plate	49
W. UCHMAN, L. REMIORZ AND J. KOTOWICZ Economic effectiveness evaluation of the free piston Stirling engine-based micro-combined heat and power unit in relation to classical systems	71
R.B. IFFA, L. KAIROUANI AND N. BOUAZIZ: Optimization of absorption refrigeration systems by the method of computational experiment design	85
M. SIKORA AND T. BOHDAL: Application of computer image analyzes in the investigation of refrigerants condensation in minichannels	103
M. LENARCZYK AND R. DOMAŃSKI: Investigation of non-Fourier thermal waves interaction in a solid material	115
T. MUSZYŃSKI, R. ANDRZEJCZYK, I.W. PARK AND C.A. DORAO: Heat transfer and pressure drop characteristics of the silicone-based plate heat exchanger	127
J. JANUS, P. SKOTNICZNY AND M. RICHERT: Modeling of the impact of construction solutions on operating parameters of the internal heat exchanger with refrigerant R744	145
M.S. HADJIDJ, N. BIBI-TRIKI AND F. DIDI: Analysis of the reliability of photovoltaic-micro-wind based hybrid power system with battery storage for optimized electricity generation at Tlemcen, north west Algeria	161