

Contents

O.G. FADODUN, A.A. AMOSUN, A.O. SALAU, D.O. OLALOYE, J.A. OGUNDEJI, F.I. IBITOYE AND F.A. BALOGUN: Numerical investigation and sensitivity analysis of turbulent heat transfer and pressure drop of $\text{Al}_2\text{O}_3/\text{H}_2\text{O}$ nanofluid in straight pipe using response surface methodology	3
S.M. ABO-DAHAB, A.M. ABD-ALLA AND A.J. ALQARNI: Magneto-thermo- elastic problem in the context of four theories under influence of laser pulse and gravity field	31
Y. NIKOLAENKO, A. BARANYUK, V. ROHACHOV AND A. TEREKH: Numerical study of heat transfer and aerodynamic drag of the radiator with lamellar split finning	67
K. BATAINEH AND BARA A. KHALEEL: Thermodynamic analysis of a combined cycle power plant located in Jordan: A case study	95
M. TOKARSKI, A. RYFA, P. BULIŃSKI, M. ROJCZYK, K. ZIARKO AND A.J. NOWAK: Mathematical model and measurements of a combi-steamer condensation hood	125
ZHIGAO DANG AND ZHAOYONG MAO: Dynamic response analysis of a thin-walled rectangular plate subjected to thermoacoustic loadings	151
S.U. MAMATHA, K. RAMESH BABU, P. DURGA PRASAD, C.S.K RAJU AND S.V.K. VARMA: Mass transfer analysis of two-phase flow in a suspension of microorganisms	175
M.A. ABDOLHOSSEIN ZADEH AND SH. NAKHJAVANI: Subcooled flow boiling of a citric acid aqueous mixture	193
K. LOTFY, M. GABR AND A. ABD EL-BARY: Wave propagation in 2D between two elastic media in contact in theory of generalized two-temperature ther- moelasticity with gravity effect	219
A. DHAUNDIYAL AND S.B. SINGH: Optimisation of the performance of a pyrolysis reactor for G50 chips	245