

Contents

- 1) Remigiusz Ornowski, Marcin Lackowski, Roman Kwidzinski
Application of machine learning for reconstruction of multiphase fluid structure measured
by a capacitance multi-electrode sensor 5–12
- 2) Paulina Copik, Andrzej Szlęk, Mario Ditaranto
Simplified mathematical model of oxy-fuel combustion of municipal solid waste in the grate furnace:
effect of different flue gas recirculation rates and comparison with conventional mode 13–25
- 3) Deepak Kumar, Naveen Kumar, Rajiv Chaudhary
Use of butanol, pentanol and diesel in a compression ignition engine: A review 27–35
- 4) Prabhakar Bhandari, Vineet Sharma, Lalit Ranakoti, Vijay Singh Bisht, Manish Kumar Lila, Shivasheesh
Kaushik, Nikhil Kanojia, Ayushman Srivastava, Bhupendra Kumar, Shailesh Ranjan Kumar, Manish Kumar,
Ashwarya Raj Paul
Numerical Investigation of Increasing-Decreasing Stepped Micro Pin Fin Heat Sink Having Various
Arrangements 37–44
- 5) Sonam, Rajendra Singh Yadav
Evaluating the mixed convection flow of Casson fluid from the semi-infinite vertical plate
with radiation absorption effect 45–59
- 6) Samir Mamache, Fatsah Mendil, Faïçal Nait Bouda
Thermal instability of three-dimensional boundary layer stagnation point flow towards
a rotating disc 61–72
- 7) Tomasz Kuś, Paweł Madejski
Numerical investigation of thermal-flow processes in the ejector-condenser for selected geometrical
parameters 73–83
- 8) Subramanian Navaneethan, Paweł Madejski
Carbon dioxide capture in large-scale CCGT power plant from flue gases obtained from various
fuel mixtures 85–93
- 9) Magdalena Jaremkiwicz
Analysis of the accuracy of the inverse marching method used to determine thermal stresses
in cylindrical pressure components 95–105
- 10) Jacek Kalina
Sizing large-scale industrial heat pump for heat recovery from treated municipal sewage
in coal-fired district heating system 107–124

to be continued