

Contents

D. MIKIELEWICZ, J. MIKIELEWICZ AND J. WAJS: Experiences from operation of different expansion devices for application in domestic micro CHP	3
J. KOTOWICZ, Ł. BARTELA AND A. BALICKI: Thermodynamic analysis of a new conception of supplementary firing in a combined cycle	15
R. WYCZÓŁKOWSKI AND D. MUSIAŁ: Thermovision determination of the furnace chamber environment temperature using the technical blackbody model ..	25
S. ŁOPATA AND P. OCŁOŃ: The analysis of gradient algorithm effectiveness – two dimensional heat transfer problem	37
H. BIELIŃSKI AND J. MIKIELEWICZ: Computer cooling using a two phase minichannel thermosyphon loop heated from horizontal and vertical sides and cooled from vertical side	51
J. KOZIOL, W. GAZDA AND Ł. WILŻYŃSKI: Energy efficiency for the transcritical compression CO ₂ cycle with the use of the ejector as the first stage of the compression	61
D. TRZEBIŃSKI AND I. SZCZYGIEL: Thermal analysis of car air conditioning ...	71
W. STANEK AND M. BUDNIK: Application of exergy analysis for evaluation of CO ₂ emission from operation of steam power unit	81
M. HANUSZKIEWICZ-DRAPAŁA AND J. SKŁADZIEŃ: Heating system with vapour compressor heat pump and vertical U-tube ground heat exchanger	93
A. BORSUKIEWICZ-GOZDUR: Influence of heat recuperation in ORC power plant on efficiency of waste heat utilization	111
P. NEMEC, A. ČAJA AND R. LENHARD: Visualization of heat transport in heat pipes using thermocamera	125
T. BURY, J. SKŁADZIEŃ AND K. WIDZIEWICZ: Experimental and numerical analyses of finned cross flow heat exchangers efficiency under non-uniform gas inlet flow conditions	133