



APPLIED THERMAL ENGINEERING



Editor-in-Chief: *David A. Reay*

DESIGN . PROCESSES . EQUIPMENT . ECONOMICS

Also available on

SCIENCE @ DIRECT®

www.sciencedirect.com

APPLIED THERMAL ENGINEERING

DESIGN · PROCESSES · EQUIPMENT · ECONOMICS

Volume 27, Numbers 11–12

August 2007

CONTENTS

- | | | |
|--|------|---|
| J. WEN, Y. LI, S. WANG and A. ZHOU | 1761 | Experimental investigation of header configuration improvement in plate-fin heat exchanger |
| D. ZHENG, W. DENG, H. JIN and J. JI | 1771 | α - h Diagram and principle of exergy coupling of GAX cycle |
| Y. WANG, L. LIN, A. P. ROSKILLY, S. ZENG, J. HUANG, Y. HE, X. HUANG, H. HUANG, H. WEI, S. LI and J. YANG | 1779 | An analytic study of applying Miller cycle to reduce NO _x emission from petrol engine |
| S. AUS DER WIESCHE | 1790 | Numerical heat transfer and thermal engineering of AdBlue (SCR) tanks for combustion engine emission reduction |
| A. K. KRALJ and P. GLAVIĆ | 1799 | Optimization of a gas turbine in the methanol process, using the NLP model |
| H. M. ŞAHİN, A. R. DAL and E. BAYSAL | 1806 | 3-D Numerical study on the correlation between variable inclined fin angles and thermal behavior in plate fin-tube heat exchanger |
| D. QUACH, R. C. ALDREDGE, H. B. LIU and W. J. RICHARDS | 1817 | Thermal design study of a liquid hydrogen-cooled cold-neutron source |
| Y.-S. TSENG, H.-H. FU, T.-C. HUNG and B.-S. PEI | 1823 | An optimal parametric design to improve chip cooling |
| Z. ALTAÇ and Ö. KURTUL | 1832 | Natural convection in tilted rectangular enclosures with a vertically situated hot plate inside |
| H. D. M. HETTIARACHCHI, M. GOLUBOVIC and W. M. WOREK | 1841 | The effect of longitudinal heat conduction in cross flow indirect evaporative air coolers |
| Y. ÖZÇELIK | 1849 | Exergetic optimization of shell and tube heat exchangers using a genetic based algorithm |
| T. SAVOLA, T.-M. TVEIT and C.-J. FOGELHOLM | 1857 | A MINLP model including the pressure levels and multiperiods for CHP process optimisation |
| C. TIAN, H. XU, X. LI and Y. LIAO | 1868 | Simulation and performance analysis of control mechanism in variable displacement swash plate compressor |

[continued on inside back cover]



ELSEVIER

Printed by Krips BV, Meppel, The Netherlands



1359-4311(200708)27:11-12;1-W

Indexed/Abstracted in: *Appl. Mech. Rev.*, *Res. Alert*, *Cam. Sci. Abstr.*, *Chemical Abstracts Service*, *Curr. Cont./Eng. Tech. & Appl. Sci.*, *Curr. Tech. Ind.*, *EIC Intell.*, *Eng. Ind.*, *Metals Abstr.*, *Curr. Cont. SCISEARCH Data.*, *TCEA*