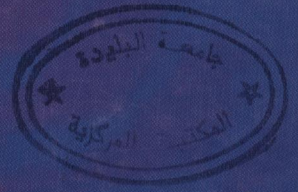


APPLIED THERMAL ENGINEERING



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 25, Numbers 17-18

December 2005

CONTENTS

Review

- | | | |
|-------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------|
| A. D. PEACOCK and
M. NEWBOROUGH | 2653 | Impact of micro-CHP systems on domestic sector CO ₂ emissions |
| O. CARPENTIER, D. DEFER,
E. ANTCZAK and B. DUTHOIT | 2677 | The use of infrared thermographic and GPS topographic surveys to monitor spontaneous combustion of coal tips |
| Z. Q. LOU, A. S. MUJUMDAR and
C. YAP | 2687 | Effects of geometric parameters on confined impinging jet heat transfer |
| L. BARELLI and G. BIDINI | 2698 | Design of the measurements validation procedure and the expert system architecture for a cogeneration internal combustion engine |
| M. V. RANE and M. S. TANDALE | 2715 | Water-to-water heat transfer in tube-tube heat exchanger: Experimental and analytical study |
| H. IMURA, Y. KOITO,
M. MOCHIZUKI and H. FUJIMURA | 2730 | Start-up from the frozen state of two-phase thermosyphons |
| J. S. BINTORO, A. AKBARZADEH
and M. MOCHIZUKI | 2740 | A closed-loop electronics cooling by implementing single phase impinging jet and mini channels heat exchanger |
| V. BADESCU | 2754 | Simulation analysis for the active solar heating system of a passive house |
| M. DE PAEPE, W. BOGAERT and
D. MERTENS | 2764 | Cooling of oil injected screw compressors by oil atomisation |
| X. WANG and K. C. NG | 2780 | Experimental investigation of an adsorption desalination plant using low-temperature waste heat |
| K. SULEYMAN YIGIT | 2790 | Experimental investigation of a comfort heating system for a passenger vehicle with an air-cooled engine |
| Y.-C. CHANG | 2800 | Genetic algorithm based optimal chiller loading for energy conservation |
| A. AL-KASSIR, J. GAÑAN and
F. V. TINAUT | 2816 | Theoretical and experimental study of a direct contact thermal screw dryer for biomass residues |

[continued on inside back cover



1359-4314(200512)25:17-18;1-X

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*