

APPLIED THERMAL ENGINEERING

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

DESIGN • PROCESSES • EQUIPMENT • ECONOMICS

Also available on

SCIENCE @ DIRECT®
www.sciencedirect.com



PERGAMON

APPLIED THERMAL ENGINEERING

DESIGN · PROCESSES · EQUIPMENT · ECONOMICS

Volume 24, Numbers 17–18

December 2004

CONTENTS

- C. TIAN, C. DOU, X. YANG and X. LI 2467 A mathematical model of variable displacement wobble plate compressor for automotive air conditioning system
- G. TH. VLACHOS and J. K. KALDELLIS 2487 Application of gas-turbine exhaust gases for brackish water desalination: a techno-economic evaluation
- R. CONDE, M. T. PARRA, F. CASTRO, J. M. VILLAFRUELA, M. A. RODRÍGUEZ and C. MÉNDEZ 2501 Numerical model for two-phase solidification problem in a pipe
- Z. GU, H. LIU and Y. LI 2511 Thermal energy recovery of air conditioning system—heat recovery system calculation and phase change materials development
- P. RAJALA, N. MILOSAVLJEVIC, H. KIISKINEN and M. HENDRICKSON 2527 The effect of the impingement air drying on print mottle and other coated paper properties
- F. AGHBALOU, A. MIMET, F. BADIA, J. ILLA, A. EL BOUARDI and J. BOUGARD 2537 Heat and mass transfer during adsorption of ammonia in a cylindrical adsorbent bed: thermal performance study of a combined parabolic solar collector, water heat pipe and adsorber generator assembly
- B. AGNEW and S. M. AMELI 2557 A finite time analysis of a cascade refrigeration system using alternative refrigerants
- N. LARAQI, A. BAÏRI and L. SÉGUI 2567 Temperature and thermal resistance in frictional devices
- H. KOIZUMI 2583 Time and spatial heat transfer performance around an isothermally heated sphere placed in a uniform, downwardly directed flow (in relation to the enhancement of latent heat storage rate in a spherical capsule)
- M. J. AL-KHAWAJA 2601 Determination and selecting the optimum thickness of insulation for buildings in hot countries by accounting for solar radiation
- A. KILICARSLAN 2611 An experimental investigation of a different type vapor compression cascade refrigeration system
- P. S. DOHERTY, S. AL-HUTHAILI, S. B. RIFFAT and N. ABODAHAB 2627 Ground source heat pump—description and preliminary results of the Eco House system

[continued on inside back cover]



ELSEVIER

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*



1359-4311(200412)24:17-18;1-0