



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 17–18

December 2007

CONTENTS

Review

J. FERNÁNDEZ-SEARA,
F. J. UHÍA, J. SIERES
and A. CAMPO

S.-C. HU and J.-M. TSAO

P. CHAIVATAMASET and S. TIA

Y. SANJAY, O. SINGH and
B. N. PRASAD

V. R. RADHAKRISHNAN,
M. RAMASAMY, H. ZABIRI,
V. DO THANH, N. M. TAHIR,
H. MUKHTAR, M. R. HAMDI and
N. RAMLI

Z. LI, X. HUAI, Y. TAO and
H. CHEN

X. HUAI, W. WANG and Z. LI

R. KANDASAMY, X.-Q. WANG and
A. S. MUJUMDAR

I. W. EAMES, A. E. ABLWAIFA and
V. PETRENKO

H.-S. CHOI, S. YUN and
K.-I. WHANG

M.-S. SHIN, H.-S. KIM and
D.-S. JANG

Y. W. LI, R. Z. WANG,
J. Y. WU and Y. X. XU

M. A. DARWISH

T.-C. JEN, L. PAN, L. LI,
Q. CHEN and W. CUI

- 2745 A general review of the Wilson plot method and its modifications to determine convection coefficients in heat exchange devices
- 2758 A comparative study on energy consumption for HVAC systems of high-tech FABs
- 2767 Heat transfer in a crater bed
- 2779 Energy and exergy analysis of steam cooled reheat gas-steam combined cycle
- 2791 Heat exchanger fouling model and preventive maintenance scheduling tool
- 2803 Effects of thermal property variations on the liquid flow and heat transfer in microchannel heat sinks
- 2815 Analysis of the effective thermal conductivity of fractal porous media
- 2822 Application of phase change materials in thermal management of electronics
- 2833 Results of an experimental study of an advanced jet-pump refrigerator operating with R245fa
- 2841 Development of a temperature-controlled car-seat system utilizing thermoelectric device
- 2850 Numerical study on the SNCR application of space-limited industrial boiler
- 2858 Experimental performance analysis on a direct-expansion solar-assisted heat pump water heater
- 2869 Building air conditioning system using fuel cell: Case study for Kuwait
- 2877 The acceleration of charged nano-particles in gas stream of supersonic De-Laval-type nozzle coupled with static electric field

{continued on inside back cover}



ELSEVIER



1359-4311(200712)27:17-18;1-P

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*