

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, Number 10

July 2004

CONTENTS

- | | | |
|--|------|--|
| J. L. MÍGUEZ, S. MURILLO,
J. PORTEIRO and L. M. LÓPEZ | 1409 | Feasibility of a new domestic CHP
trigeneration with heat pump: I. Design
and development |
| J. PÓRTEIRO, J. L. MÍGUEZ,
S. MURILLO and L. M. LÓPEZ | 1421 | Feasibility of a new domestic CHP
trigeneration with heat pump: II. Availa-
bility analysis |
| Y.-H. QIU and Z.-H. LIU | 1431 | Boiling heat transfer of water on smooth
tubes in a compact staggered tube
bundle |
| X. HUAI, S. KOYAMA, T. S. ZHAO,
E. SHINMURA, K. HIDEHIKO and
M. MASAKI | 1443 | An experimental study of flow boiling
characteristics of carbon dioxide in
multiport mini channels |
| S. PORKHIAL, B. KHASTOO and
M. SAFFAR-AVVAL | 1465 | Transient response of dry expansion
evaporator in household refrigerators |
| B. DE JAGER and J. B. W. KOK | 1481 | Application of the first combustion
model to spray combustion |
| H. WU, X. PENG, Z. XING and
P. SHU | 1491 | Experimental study on <i>p-V</i> indicator
diagrams of twin-screw refrigeration
compressor with economizer |
| B. AGNEW, A. ALAKTIWI,
A. ANDERSON and I. POTTS | 1501 | Simulation of a combined Rankine-
absorption cycle |
| G. DING, C. ZHANG and Z. LU | 1513 | Dynamic simulation of natural convec-
tion bypass two-circuit cycle refrigera-
tor-freezer and its application
Part I: Component models |
| Z. LU, G. DING and C. ZHANG | 1525 | Dynamic simulation of natural convec-
tion bypass two-circuit cycle refrigera-
tor-freezer and its application
Part II: System simulation and application |
| A. TOPUZ, M. GUR and M. Z. GUL | 1535 | An experimental and numerical study of
fluidized bed drying of hazelnuts |

**CONTENTS
Direct**

This journal is part of **ContentsDirect**, the **free** alerting service which
sends tables of contents by e-mail for Elsevier books and journals. You can
register for **ContentsDirect** online at: <http://contentsdirect.elsevier.com>



1359-4311(200407)24:10;1-6

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*