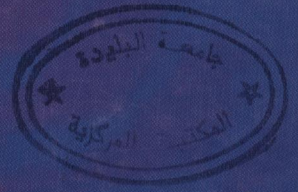


APPLIED THERMAL ENGINEERING



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 26, Numbers 17-18

December 2006

CONTENTS

Review

- F. AMPOFO, G. G. MAIDMENT
and J. F. MISSENDEN 2055 Review of groundwater cooling systems in London
- Z. WANG and Z. LI 2063 Lattice dynamics analysis of thermal conductivity in silicon nanoscale film
- F. L. TAN and S. C. FOK 2067 Cooling of helmet with phase change material
- S. VITHAYASAI, T. KIATSIRIROAT
and A. NUNTAPHAN 2073 Effect of electric field on heat transfer performance of automobile radiator at low frontal air velocity
- A. BEYENE and A. MOMAN 2079 Process oriented industrial classification based on energy intensity
- Y.-S. CHEN, K.-H. CHIEN,
C.-C. WANG, T.-C. HUNG
and B.-S. PEI 2087 A simplified transient three-dimensional model for estimating the thermal performance of the vapor chambers
- V. D. PAPAETHIMIOU,
D. C. KARAMPINOS and
E. D. ROGDAKIS 2095 A detailed analysis of water-vapour absorption in LiBr-H₂O solution on a cooled horizontal tube
- T. M. MRÓZ 2103 Thermodynamic and economic performance of the LiBr-H₂O single stage absorption water chiller
- S. B. MABROUK, B. KHIARI
and M. SASSI 2110 Modelling of heat and mass transfer in a tunnel dryer
- W.-W. CHENG and
C. MADHUSUDANA 2119 Effect of electroplating on the thermal conductance of fin-tube interface
- J. GHOJEL, D. HONNERY
and K. AL-KHALEEFI 2132 Performance, emissions and heat release characteristics of direct injection diesel engine operating on diesel oil emulsion
- Y. CHEN, P. LUNDQVIST,
A. JOHANSSON and P. PLATELL 2142 A comparative study of the carbon dioxide transcritical power cycle compared with an organic rankine cycle with R123 as working fluid in waste heat recovery
- R. BOUKHANOUF, A. HADDAD,
M. T. NORTH and C. BUFFONE 2148 Experimental investigation of a flat plate heat pipe performance using IR thermal imaging camera
- T. OGAWA, T. ITO, K. WATANABE,
K.-I. TAHARA, R. HIRAOKA,
J.-I. OCHIAI, R. OHMURA
and Y. H. MORI 2157 Development of a novel hydrate-based refrigeration system: A preliminary overview

[continued on inside back cover]



1359-4311(200612)26:17-18;1-T

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