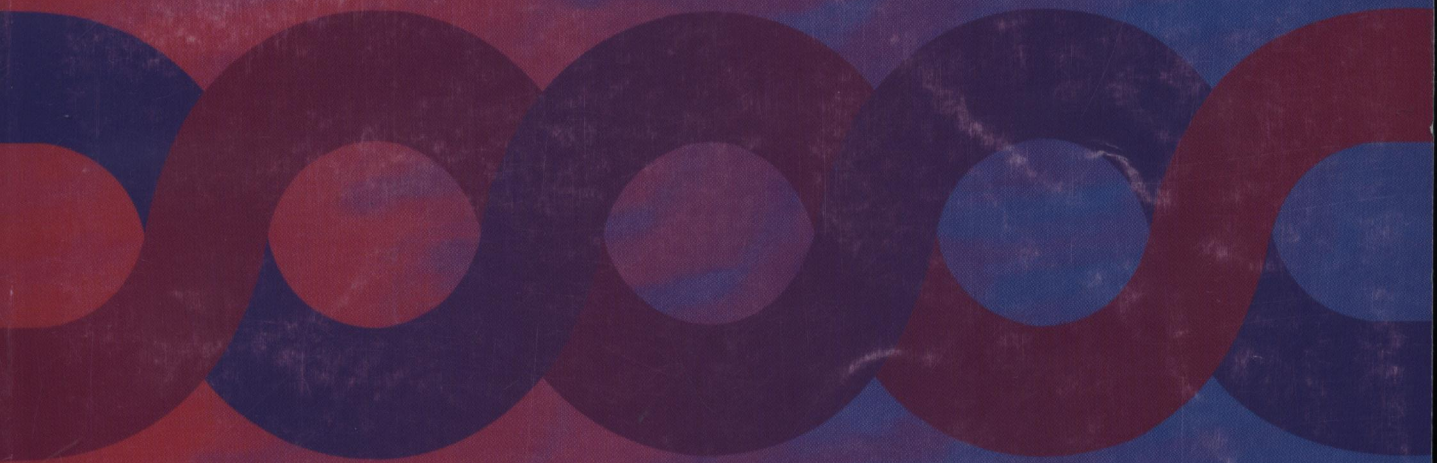
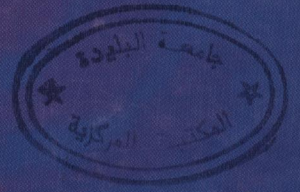


APPLIED THERMAL ENGINEERING



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 28, Numbers 5-6

April 2008

CONTENTS

Editorial

- | | | |
|---|-----|--|
| D. REAY | 345 | Soliciting support for energy-efficient technologies – Sometimes it means a bumpy ride |
| R. SURESHKUMAR, S. R. KALE and P. L. DHAR | 349 | Heat and mass transfer processes between a water spray and ambient air – I. Experimental data |
| R. SURESHKUMAR, S. R. KALE and P. L. DHAR | 361 | Heat and mass transfer processes between a water spray and ambient air – II. Simulations |
| C.-J. LIN, Y. K. CHUAH and C.-W. LIU | 372 | A study on underground tunnel ventilation for piston effects influenced by draught relief shaft in subway system |
| P.-T. HSU | 380 | The inverse estimation of the thermal behavior and the viscosity of fluid between two horizontal concentric cylinders with rotating inner cylinder |
| J. MOHELNÍKOVÁ | 388 | Method for evaluation of radiative properties of glass samples |
| M. B. CELIK | 396 | Experimental determination of suitable ethanol-gasoline blend rate at high compression ratio for gasoline engine |
| M. AKGÜN, O. AYDIN and K. KAYGUSUZ | 405 | Thermal energy storage performance of paraffin in a novel tube-in-shell system |
| Y.-M. FERNG and H.-J. CHANG | 414 | CFD investigating the impacts of changing operating conditions on the thermal-hydraulic characteristics in a steam generator |
| I. CONTÉ and X. F. PENG | 423 | Numerical investigations of laminar flow in coiled pipes |
| X. L. XIE, Y. L. HE, W. Q. TAO and H. W. YANG | 433 | An experimental investigation on a novel high-performance integrated heat pipe-heat sink for high-flux chip cooling |
| B. WANG, W. SHI, X. LI and Q. YAN | 440 | Numerical research on the scroll compressor with refrigeration injection |
| A. ABBASSI and KH. KHOSHMANESH | 450 | Numerical simulation and experimental analysis of an industrial glass melting furnace |

[continued on inside back cover



ELSEVIER



1359-4311(200804)28:5-6;1-3

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*

Printed by Krips BV, Meppel, The Netherlands