

Volume 29, Number 11, October 2005
ISSN 1359-4311

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

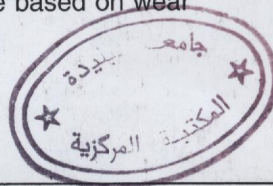
DESIGN · PROCESSES · EQUIPMENT · ECONOMICS

Volume 23, Number 17

December 2003

CONTENTS

- | | | |
|--------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------|
| O. GARCIA-VALLADARES,
J. CHAN GONZÁLEZ,
J. I. HERNÁNDEZ and
R. BÉST Y BROWN | 2151 | The evaluation of a small capacity shell and tube ammonia evaporator |
| M. VALDÉS,
M ^a D. DURÁN and
A. ROVIRA | 2169 | Thermoeconomic optimization of combined cycle gas turbine power plants using genetic algorithms |
| D. ASTRAIN, J. G. VIÁN and
M. DOMÍNGUEZ | 2183 | Increase of COP in the thermoelectric refrigeration by the optimization of heat dissipation |
| J. C. KLOPPERS and
D. G. KRÖGER | 2201 | Loss coefficient correlation for wet-cooling tower fills |
| X. JI, X. LU and J. YAN | 2213 | Survey of experimental data and assessment of calculation methods of properties for the air-water mixture |
| B. DOU, J. GAO, X. SHA and
S. W. BAEK | 2229 | Catalytic cracking of tar component from high-temperature fuel gas |
| K. BRODOWICZ and
M. MARKOWSKI | 2241 | Calculation of heat exchanger networks for limiting fouling effects in the petrochemical industry |
| Ü. ÇAMDALI and
M. TUNÇ | 2255 | Exergy analysis and efficiency in an industrial AC electric ARC furnace |
| E. D. ROGDAKIS,
V. D. PAPAETHIMIOU and
D. C. KARAMPINOS | 2269 | A realistic approach to model LiBr-H ₂ O smooth falling film absorption on a vertical tube |
| H. CHANG, Y. ZHANG and
L. CHEN | 2285 | Gray forecast of Diesel engine performance based on wear |



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(200312)23:17;1-5



PERGAMON

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*