

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 11

August 2003

CONTENTS

- J. ARRÈGLE, J. J. LÓPEZ, 1301 Development of a zero-dimensional Diesel
J. M. GARCÍA and C. FENOLLOSA combustion model
Part 1: Analysis of the quasi-steady diffusion
combustion phase
- J. ARRÈGLE, J. J. LÓPEZ, 1319 Development of a zero-dimensional Diesel
J. M. GARCÍA and C. FENOLLOSA combustion model
Part 2: Analysis of the transient initial and
final diffusion combustion phases
- E. MINCIUC, O. LE CORRE, 1333 Fuel savings and CO₂ emissions for tri-
V. ATHANASOVICI and generation systems
M. TAZEROUD
- H. MANAFZADEH, S. M. 1347 Coke deposition by physical condensation of
SADRAMELI and J. TOWFIGHI poly-cyclic hydrocarbons in the transfer line
exchanger (TLX) of olefin plant
- G. BRECQ, J. BELLETTRE, 1359 Knock prevention of CHP engines by addi-
M. TAZEROUD and T. MULLER tion of N₂ and CO₂ to the natural gas fuel
- A. BAÏRI and N. LARAQI, 1373 Diagrams for fast transient conduction in
sphere and long cylinder subject to sudden
and violent thermal effects on its surface
- E. MINCIUC, O. LE CORRE, 1391 Thermodynamic analysis of tri-generation
V. ATHANASOVICI, with absorption chilling machine
M. TAZEROUD and I. BITIR
- B. LENOIR, A. DAUSCHER, 1407 Electrical performance of skutterudites solar
P. POINAS, H. SCHERRER and thermoelectric generators
L. VIKHOR
- J. O. VALDERRAMA and 1417 A cubic equation of state for water and its
D. A. VARGAS application to power cycle calculations
- T. TSOUTSOS, J. ANAGNOSTOU, 1427 Solar cooling technologies in Greece. An
C. PRITCHARD, economic viability analysis
M. KARAGIORGAS and
D. AGORIS

CONTENTS
Direct

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



1359-4311(200308)23:11;1-8



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*