

## APPLIED THERMAL ENGINEERING



Editor-in-Chief: David A. Reay

Design · Processes · Equipment · Economics

Also available on

SCIENCE DIRECT\*

www.sciencedirect.com

## **CONTENTS**

## Special Issue: Selected Papers from the 6th Minsk International Seminar on Heat Pipes, Heat Pumps and Refrigerators

|   |                   | Thermal Engineering 28 (2008) 253  |
|---|-------------------|--|
| L. L. VASILIEV and<br>A. S. ZHURAVLYOV  | 253               | Editorial www.disevier.com/locate/apthermeng   |
| S. A. ZHDANOK   | 254               | Nonequilibrium processes and their applications  |
| V. A. ALEXEEV, A. V. SHISHANOV, V. F. CHUKIN, S. S. SKOBELEV, A. A. DONSKOY,      | 261               | Heat storages based on shape-stable phase-transitional material  |
| M. A. SHASHKINA and V. A. EVSEEVA   | "Heat<br>Id at Mi |  |
| L. L. VASILIEV  | 266               | Micro and miniature heat pipes - Electronic component coolers  |
| R. M. BAYASAN, A. G. KOROTCHENKO, N. G. VOLKOV, G. P. PUSTOVOIT and A. D. LOBANOV | 274               | Use of two-phase heat pipes with the enlarged heat-exchange surface for thermal stabilization of permafrost soils at the bases of structures   |
| T. SEMENIC, Y. Y. LIN, I. CATTON and D. B. SARRAF                                 | 278               | Use of biporous wicks to remove high heat fluxes Honorary Scientific topic at this committee and main semi-one - National Academy of Sylvinian Academy o |
| G. WANG, D. MISHKINIS and D. NIKANPOUR  | 284               | Capillary heat loop technology: Space applications and recent Canadian activities  |
| K. FUJIOKA, K. HATANAKA and Y. HIRATA   | 304               | Composite reactants of calcium chloride combined with functional carbon materials for chemical heat pumps  |
| O. G. BURDO,<br>E. A. KOVALENKO and<br>D. A. KHARENKO                             | 311               | Intensification of the processes of low-temperature separation of food solutions   |
| R. Z. WANG  | 317               | Efficient adsorption refrigerators integrated with heat pipes  |
| I. I. SVIRIDENKO  | 327               | Heat exchangers based on low temperature heat pipes for autonomous emergency WWER cooldown systems   |
| W. NOWAK, A. A. STACHEL and A. BORSUKIEWICZ-GOZDUR                                | 335               | Possibilities of implementation of absorption heat pump in realization of the Clausius–Rankine cycle in geothermal power station   |
| 0. G. BURDO and I. V. BEZBAH  | 341               | Rotating heat pipes in devices for heat treatment of the food-stuffs   |
|   |                   |  |