

Volume 41, Number 10

ISSN: 0040-6015



October 1994

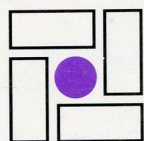
THERMAL ENGINEERING

Official English Translation of *Teploenergetika*

Editor-in-Chief
Viktor I. Dobrokhoto

Doctor of Sciences; Department Head of the Ministry of Science
and Technical Policy of the Russian Federation

**A Popular Scientific Journal of Original Papers on the Problems
of Thermal Energy and Engineering**



МАИК НАУКА/INTERPERIODICA PUBLISHING

Contents

Vol. 41, No. 10, 1994

| | |
|--|-----|
| New Equipment Available from the Moscow Thermal Automation Manufacturing Plant for Computer-Aided Automation of Thermal Processes <i>N. I. Kozitsina, B. I. Kaplinskii, and D. M. Mebel'</i> | 759 |
| Calculation of the Robust Settings of Automatic Controllers <i>V. Ya. Rotach</i> | 764 |
| Design of Multivariable Automatic Control Systems: The Systems Approach <i>O. S. Sobolev</i> | 770 |
| Specifics of the Structure of Automatic Systems of Complex Diagnostics for Power Stations <i>E. K. Arakelyan</i> | 777 |
| Current Trends in the Construction of Simulators and Computer-Aided Training of the Personnel of Power-Generating Units <i>V. V. Okhotin and V. B. Khoziev</i> | 783 |
| The Specifics of Developing Control Systems for Ultra-Supercritical Steam Turbines <i>A. E. Bulkin and A. A. Kalashnikov</i> | 788 |
| Model Studies of Transients in an Automatic Control System for the Water Level in a Boiler Drum <i>N. D. Aleksandrova and N. I. Davydov</i> | 794 |
| Experimental Investigation of a Nozzle Row with Reduced End Losses <i>M. E. Deich[†], Sh. Deler, and B. A. Korshunov</i> | 801 |
| Experimental Studies of the Effect of Steam Injection into the Gas-Turbine Combustion Chamber on Power Unit Characteristics <i>G. I. Bogoradovskii, L. G. Korenevskii, A. M. Temirov, and L. A. Golod</i> | 806 |
| Diffuser Profile Design for Confuser-Diffuser Heat Exchangers <i>I. P. Sereda</i> | 808 |
| Vibrations Excited by Two-Phase Flow in the Spiral-Tube Coils of Heat-Transfer Equipment <i>N. N. Kirilyuk</i> | 812 |
| An Experimental Study of the Dielectric Constant of Dry Saturated Steam <i>Yu. V. Mulev, S. N. Smirnov, B. I. Nigmatulin, M. R. Mushailov, and A. F. Abdullaev</i> | 817 |
| On the Reliability Index for Stagnation and Reversal of Flow in Hydraulic Systems of Steam Boilers <i>A. A. Belov, A. N. Bezgreshnov, and A. N. Ozerov</i> | 821 |
| A Fast-Response Adaptable PID Controller Tuned by the Zigler-Nichols Method <i>V. V. Kondrat'ev and V. M. Mazurov</i> | 824 |
| A Gas Analyzer for Monitoring the Nitric Oxide in Flue Gases <i>I. I. Ippolitov, M. A. Buldakov, V. F. Zhilitskii, B. V. Korolev, V. V. Krainov, V. E. Lyubetskii, S. A. Loboda, I. I. Matrosov, and S. V. Tigeev</i> | 828 |
| The Role of Legislative Regulation in Conducting a Policy of Energy Conservation in Industrially Advanced Foreign Countries <i>S. D. Molodtsov</i> | 830 |
| Errors in Metering the Supply from Heat Sources <i>G. M. Ivanova, S. P. Yachina, and E. V. Golikov</i> | 835 |
| A List of Articles on Problems of Automation, Control and Computer Technology Applications in Power Engineering, Published in 1993 and 1994 | 841 |
| OBITUARY. Evgenii Nikolaevich Prutkovskii | 845 |

