

Volume 41, Number 5

ISSN: 0040-6015



May 1994

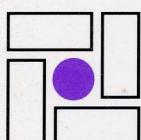
THERMAL ENGINEERING

Official English Translation of *Teploenergetika*

Editor-in-Chief
Viktor I. Dobrokhotov

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. 5, 1994

Advanced Concepts for Developing Fast Reactors with a Sodium Coolant <i>V. I. Matveev, V. M. Murogov, V. M. Poplavskii, V. I. Subbotin, M. F. Troyanov, and A. G. Tsikunov</i>	327
Marking the Fortieth Anniversary of the Commissioning of the World's First Nuclear Power Station in Obninsk <i>G. N. Ushakov</i>	335
Experience in Creating and Operating the First Nuclear Power Station <i>M. E. Minashin and Yu. A. Stuzhnev</i>	338
The Concept of Complex Utilization of Nuclear Fuel for the Development of Nuclear Thermal Engineering <i>R. G. Bogoyavlenskii, A. Kh. Breger, and A. V. Putilov</i>	342
Computer Simulation of Hydrodynamics in the Water Space of a PGV-1000 Steam Generator <i>V. I. Gorburov and V. M. Zorin</i>	346
The Water-Chemistry Parameters of PGV-1000 Steam Generators <i>V. N. Voronov, P. N. Nazarenko, A. G. Shmelev, A. P. Titarenko, M. G. Shchedrin, A. F. Sotnikov, and V. G. Luchkin[†]</i>	355
Monitoring the Residual Life of Nuclear Power Station Equipment Using Indicators of the Corrosion Fatigue Strength of the Structural Materials <i>I. A. Stepanov[†]</i>	362
Application of Mathematical Models of Two-Phase Flows for Analyzing Thermohydraulic Processes in Nuclear Power Stations <i>V. N. Pryakhin</i>	366
The Effect of the Arrangement of Primary Circuit Tubes on the Development of Accidents in Pressurized-Water Reactors <i>B. I. Nigmatulin, A. G. Lobachev, and L. K. Tikhonenko</i>	370
Operation of Nuclear Power Stations in 1993 <i>V. I. Andreev and V. M. Vitkov</i>	374
Natural Gas in Centralized Electricity and Heat Supply <i>M. A. Styrikovich</i>	377
Pressure Drop in In-Line Finned Tube Bundles under Cross Flow <i>V. M. Legkii, E. N. Pis'mennyi, and A. M. Terekh</i>	385
A Rotary Filter for Cleaning Turbine-Condenser Cooling Water <i>S. G. Shipilev and G. I. Efimochkin</i>	389
Simulation of Physicochemical Processes in Boilers with a Circulating Fluidized Bed <i>B. L. Kadnikov, N. I. Davydov, G. A. Ryabov, and B. I. Shmukler</i>	393
Management of the Energy Economy of France <i>G. Malabouche</i>	400
The Findings of the IV Annual Scientific and Technical Conference of the Russian Nuclear Society <i>R. G. Bogoyavlenskii and B. K. Bylkin</i>	404
A List of Articles on Fuel, Problems of Combustion, and Coal-Burning Installations Published in 1991 and 1992	407
