

Volume 42, Number 1

ISSN: 0040-6015

January 1995

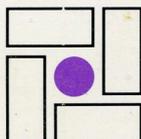
THERMAL ENGINEERING

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**



MAIK HAYKA/INTERPERIODICA PUBLISHING

Contents

Vol. 42, No. 1, 1995

Steam Turbines Manufactured at the Leningrad Metal Works for Combined-Cycle Recovery Units <i>N. N. Gudkov, Yu. N. Nezhentsev, and V. D. Gaev</i>	
Selecting the Characteristics of the Low-Potential Section of T-150-7.6 Turbine Plants Installed at the Northwest Cogeneration Power Station <i>L. P. Safonov, R. I. Kostyuk, Yu. N. Nezhentsev, V. B. Gribov, I. N. Piskovatskov, and D. M. Budnyatskii</i>	
Steam Turbines Manufactured by Turboatom NPO, Their Specifics, and Ways for Improving Them <i>E. V. Levchenko</i>	13
The Efficiency of Cogeneration Turbines at Higher Steam Flowrates in an LPC and Flow of Cooled Network Water Through the Condenser <i>G. D. Barinberg</i>	21
The Effect of Liquid Compressibility on the Velocity Profile in Aerodynamic Cascades of Turbomachines and in Individual Airfoils <i>G. S. Samoilovich[†]</i>	26
A Study of the Flow Pattern in the Transonic Blade Cascade of a Turbine <i>A. V. Granovskii, V. G. Krupa, A. N. Kolesov, and S. V. Rudenko</i>	32
An Investigation of Damage to Turbine Disks at High Steam Temperatures <i>T. G. Berezina, L. A. Ashikhmina, and S. I. Erager</i>	38
Erosion of the Trailing Edges of the Blades in the Low-Pressure Cylinder of a T-180/210-12.8 Turbine <i>V. A. Khaimov and O. E. Kotlyar</i>	42
Implementation of the Systems Approach in the Mathematical Model for the Cycle Arrangement of a Turbine Plant <i>V. M. Zorin</i>	48
Thermo-Hydraulic Crossflow Characteristics of Surfaces with Cavities <i>M. Ya. Belen'kii, M. A. Gotovskii, B. M. Lekakh, and B. S. Fokin</i>	54
Development of Fuel Rod Simulators for Light-Water Nuclear Reactors <i>S. M. Balashov, E. N. Videnev, A. I. Emel'yanov, R. S. Pomet'ko, B. I. Nigmatulin</i>	58
The Specifics of Corrosion of Austenitic-Steel Tubes in Superheaters <i>A. F. Bogachev</i>	62
Regular Packing for Contact Economizers <i>V. V. Buzhinskii</i>	68
The Design of the Hood for Low-Pressure Cylinders of High Capacity <i>V. N. Denisov, Yu. N. Yur'ev, V. F. Kasilov, and B. N. Agafonov</i>	74
An Investigation of Vorticity-Generating Grooved-Profile Turbine Blading <i>N. G. Rodionov, A. A. Dakhnovich, and A. S. Goldin</i>	80
Combined-Cycle Installations with Three-Pressure Steam Turbines <i>B. M. Troyanovskii</i>	83