

# THERMAL ENGINEERING

Pleiades  
Publishing Group  
Over  
**50** years  
in the service of  
science and education

Editor-in-Chief  
Aleksey V. Dedov

<https://pleiades.online>  
<https://link.springer.com>



PLEIADES GROUP OF COMPANIES

Distributed by **SPRINGER NATURE**

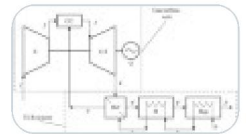


Volume 72, Issue 1  
January 2025

Publication of Contents  
ISSN 2502-6892

7 articles in this issue

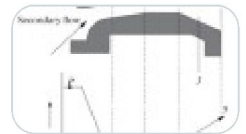
### **Ammonia as a Fuel for Gas-Turbine Units with Thermochemical Recuperation of Exhaust Gas Heat**



STEAM-TURBINE, GAS-TURBINE, AND COMBINED-CYCLE POWER PLANTS AND THEIR AUXILIARY EQUIPMENT

21 February 2025 | Pages: 1 - 7

### **Development of a Theoretical Model for Predicting Performance of a Gas Ejector in Different Boundary Conditions and Working Fluids**



STEAM-TURBINE, GAS-TURBINE, AND COMBINED-CYCLE POWER PLANTS AND THEIR AUXILIARY EQUIPMENT

21 February 2025 | Pages: 8 - 16

### **Advanced Exergy Analysis and Performance Ranking of Components of a Combined Cycle Power Plant**



STEAM-TURBINE, GAS-TURBINE, AND COMBINED-CYCLE POWER PLANTS AND THEIR AUXILIARY EQUIPMENT

21 February 2025 | Pages: 17 - 31

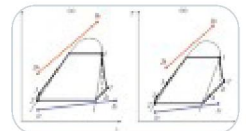
### **Performance Improvement of Power Plant at Aberrant Steam Temperature Condition through E<sup>3</sup> Analysis**



STEAM-TURBINE, GAS-TURBINE, AND COMBINED-CYCLE POWER PLANTS AND THEIR AUXILIARY EQUIPMENT

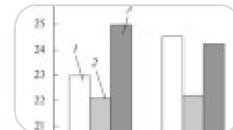
21 February 2025 | Pages: 32 - 43

### **Heat Transfer and Pressure Drop in Main Heat Exchangers of a Thermal Oil ORC-Unit (Review)**



HEAT AND MASS TRANSFER AND PROPERTIES OF WORKING FLUIDS AND MATERIALS

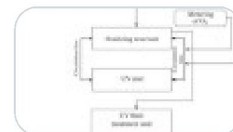
**Assessing the Economic Efficiency of Using Wind Turbines Jointly with Boiler Houses for Heat Supply in Remote and Isolated Regions of the Westernmost Part of Russia's Arctic Zone**



RENEWABLE ENERGY SOURCES, HYDROPOWER | 21 February 2025 | Pages: 65 - 77

---

**Environmental Consequences of Using Ammonia-Ethanolamine Water Chemistry in the Secondary Circuit of VVER-1200 Nuclear Power Plants**



WATER TREATMENT AND WATER CHEMISTRY | 21 February 2025 | Pages: 78 - 84

---