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cal solution, on the basis which are determined the optimum conditions of the design of the system of heat supply in question and the regimes of its operation. The solution is useful for any steam-compression heat-pumping installation, which works according to the diagram proposed.

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Non-traditional Power Engineering

Problem of combustion stabilization of low-grade coal without usage of natural gas or mazut has been considered. It has been appraised with the help of calculating aerohydrodynamics methods, thermochemical preparation efficiency of high-ash coal during its heating by combustion materials of natural gas and hydrogen in oxygen-enriched air. Calculation results of multi-stage powdered-coal burner with air spin and different variants of reactor powering of thermochemical preparation with reagents have been cited. Efficiency of substitution of natural gas for hydrogen and oxygen during firing high-ash coal in boilers of power units has been proved.