Aero- and Hydromechanics in Power Machines

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Calculation results for heterogeneous nucleus influence on condensation instability near the expanding nozzle throat for no equilibrium wet steam flow are presented. Stabilizing influence of growing heterogeneous nucleus concentration on the flow, which caused the change of regime into the stable flow with the rise of pressure, is shown.

Heat Transfer in Engineering Constructions

Slesarenko A. P., Kostikov A. O. and Safonov N. O. The quick recovery of thermal loads

Tsakanyan O. S. and Koshel S. V. Heat transfer of multichannel water convectors under

Dynamics and Strength of Machines

Hasanov F. F. Modeling of shear crack nucleation in a body, weakening by periodic system

The analysis of the stress state of the connection disc of ^{1st} degree cylinder medium-pressure steam turbine blades in the castle. The areas of possible occurrence of fatigue cracks in the castle connection with turbine operation.

Javorskyj I. M., Yuzefovych R. M., Kravets I. B., Matsko I. Y. and Stetsko I. G. Infor-

Lisin D. A., Maksymenko-Sheyko K. V. and Sheyko T. I. Mathematical modeling of the auto-

Lytvyn O. O. and Hurdei E. L. Method of creation of operators with the given projections along

Non-traditional Power Engineering

Heat and mass transfer processes, especially in the «hydrogen-metal», in metal hydride systems are considered in the article. The creation methods for improve of mathematical model of heat and mass transfer processes in hydrogen metal-hydride systems, which are take into account kinetics of the process and allow more fully shows the characteristics of the process in comparison with existing models. The use of the methods makes it possible to carry out the simulation of the metal-hydride systems and to define a set of design and operating parameters which characterize its overall performance.

High Technology in Mechanical Engineering

Banaszek S. The modeling of defects in the rotor-trains of turbomachinery – simulation-based di-

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