

ELECTRONIC MODEL OF TURBINE DRIVE FLOW FOR ITS DIRECT OPTIMIZATION

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Work has described in theses is dedicated to problem of creating finite-element models of high-quality for gas-dynamic research. Is offered model composed like a combination of separated parts-modules connected together in pre-processor Ansys CFX-Pre. Model has opportunity to include modules created in purely arbitrary 3D-modeling and meshing systems. Even so it keeps correctness what was shown by test-computing. Model processes flexibility and versatility and can be applied for analysis of turbomachines and similar-topology devices.

Turbine drive, finite-element model, gas-dynamic research 3D-modeling, meshing

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