

EXPERIMENTAL RESEARCH OF AXISYMMETRIC JET MISALIGNMENT IN THE CHANNEL WITH PERMEABLE WALLS AND CLOSED FLAT ENDS

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The effects associating the propagation of high-pressure axisymmetric gas jet in the tube with permeable walls and closed flat-ends were experimentally studied. One obtained the patterns of flows smoke-visualization outside the tube, of static pressures field along the tube and distribution and jet material concentration distribution along the external and inner tube walls in dependence of jet injection conditions. One suggested the scheme of mediums flows inside, outside and through the walls of the permeable tube where one suggested combining functions in the form of jet ejector-mixer in the internal space and radiant burner device on the external wall.

Key-words: gas jet, permeable tube, jet mixer, jet ejector, radiant burner.