SELF INDUCED LAMINAR BOUNDARY LAYER SEPARATION AND PROCESSESOF VISCOUS-INVISCID INTERACTION IN FLOW NEAR POROUS WALL

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Abstract. Investigated are local flows in the laminar boundary layers in the vicinity of porous wall elements. On the basis of asymptotical analysis mathematical models are formulated and similarity parameters are found. Determined are flow parameters providing flow control (separation, transition). Presented are results of numerical and analytical analysis.

Keywords. Separated flows, Flow control