

MATHEMATICAL MODELLING OF SWIRLED FLOW IN A CHANNEL WITH A LATERAL INTAKE

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The mathematical model of turbulent swirled flow in a channel with a lateral intake is offered. The model based on $k - \varepsilon$ model of turbulence, the finite volume method is applied. The numerical research of flow is conducted. Regularity and feature of a flow, which one was obtained, can be applied for mining computational methods and for designing mixing devices.