

## **Acoustic wave propagation in a plane-parallel channel with the turbulization of the medium**

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### **Abstract**

Acoustic wave propagation in a plane-parallel channel is considered in the case of the turbulization of the medium inside the channel by acoustic waves. The analytical solution to the problem is obtained using the hypothesis of a complex-valued eddy viscosity. The process of acoustic wave propagation is assumed to be adiabatic. The theoretical profiles of the velocity and tangential stress are compared to the experimental data reported in the literature.

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