

## Development of methods for solving problems of non-stationary heat conduction of flat-layered media

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***The problem of heat propagation from a non-stationary point heat source located inside or outside a flat-layered heat-conducting medium is studied. The non-stationary problem is reduced to the problem of a harmonic point heat source, for which the reflection method is generalized. The developed method of reflections for a point harmonic source is generalized to the case of an arbitrary system of sources and is used to solve problems of non-stationary thermal conductivity of plane-layered media with axisymmetric heat sources of complex shape.***

**Keywords:** plane layered medium, reflection method, thermal conductivity, non-stationary thermal conductivity.

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