

Method of Separation of Variables for Non-homogeneous Heat Equation with Constant Coefficients and Nonlocal Contact Conditions

Tinatin Davitashvili

E-mail: tinatin.davitashvili@tsu.ge

Chair of Numerical Analysis and Computational
Technologies, I. Javakhishvili Tbilisi State University,
3, I. Tchavtchavadze Ave., 0179 Tbilisi

The non-local contact problem for non-homogeneous heat equation with constant coefficients is discussed in the report. Using the method of separation of variables (Fourier method) is constructed a regular solution for this problem. The conditions of existence and uniqueness of the solution of the discussed problem are established.