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A PROBLEM FOR A COMPOSITE TYPE
EQUATION OF THIRD ORDER WITH GENERAL
LINEAR BOUNDARY CONDITIONS

Abstract

The considered problem is devoted to the solution of a boundary value problem for a third order model equation. The boundary conditions are not local and are obtained by means of necessary conditions. In the domain, the equation of the considered problem has both real and complex characteristics.

The form of non-local boundary conditions for which the stated boundary value problem is Fredholm is determined.