

A Typical Prototype System of Integro-Differential Equations from
Aeroelasticity Problem and an Approach to the System Solution

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Abstract

This study considers a system of integro-differential equations originally from an aeroelasticity problem. One of the equations contains a weakly singular kernel. This study introduces the method of steps for the solution and especially applies this method to find the solution of a system of integro-differential equations appeared in Herdman and Turi's paper [10].

Keyword : system of integro-differential equations 、 weakly singular kernel