

**D. Shulaia**

**On linear integral equation with coefficient having zeros**

**Abstract**

The aim of this paper is to study, in the class of Holder functions, linear integral equation with coefficient having simple zeros in an interval under consideration. Using the theory of singular integral equations, the necessary and sufficient conditions for the solvability of this equation under some assumptions on their kernel are given. Finding a solution is reduced to solving a regular integral equation of second kind.