

ON THE SPECIAL CASE OF THE BOUNDARY VALUE PROBLEM FOR CARLEMAN-BERS-VEKUA EQUATION

Valerian Jikia

Ilia Vekua Institute of Applied mathematics

Iv. Javakhishvili Tbilisi state University, Tbilisi, Georgia

In the report we consider special case of Riemann-Hilbert boundary value problem (problem of linear conjugation) for Carleman-Bers-Vekua equation, when transition function $G(t)$ given on boundary curve Γ have the zeros and poles on Γ . We give the necessary and sufficient condition of solvability and explicit formula for solution of this problem.