

**CRITERIA OF TWO-WEIGHTED INEQUALITIES WITH  
APPLICATIONS IN BVP**

VAKHTANG KOKILASHVILI

RAZMADZE MATHEMATICAL UNIVERSITY, TBILISI, GEORGIA

ABSTRACT. The goal of our talk is to present the criteria of two-weighted inequalities for a wide class of integral and Fourier operators in function spaces with nonstandard growth conditions and to give the applications of obtained results to the solution of Riemann-Hilbert-Poincare boundary value problem for analytic functions in "bad" domains.