

5th International ISAAC Congress, July 25–30, 2005, Department of Mathematics and Informatics, University of Catania, Catania, Sicily, Italy

Coauthors: No

SOME INTEGRAL EQUATIONS WITH MODIFIED BESSEL FUNCTIONS

JURI M. RAPPOPORT

The properties of the modified Kontorovich-Lebedev transforms and their kernels are considered. The solutions of some inhomogeneous integral equations are derived by means of the use of these transforms. The applications for boundary value problems of mathematical physics in the wedge domains are given. The numerical solution is conducted.

RUSSIAN ACADEMY OF SCIENCES

E-mail address: `jmrap@landau.ac.ru`