

DISCRETIZED REGULARIZATION METHOD FOR THE SOLUTION OF SOME CLASS OF THE FIRST KIND INTEGRAL EQUATIONS

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Modelling many problems of mathematical physics, economy, statistics, actuary mathematics and etc., frequently we obtain the first kind integral equations. As a rule, these equations concern to ill-posed problems. There are some iterative methods for solution of such problems. In the present work we consider the concrete discretized regularization method for the solution of the first kind integral equations in the Hilbert Space. Although the numerical application of the offered method for the test integral equations was conducted on MATHCAD, nevertheless, the received result shows that the method proposed ensures high accuracy.

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