

## On Tikhonov's Method for Ill-Posed Problems\*

By Joel N. Franklin

**Abstract.** For Tikhonov's regularization of ill-posed linear integral equations, numerical accuracy is estimated by a modulus of convergence, for which upper and lower bounds are obtained. Applications are made to the backward heat equation, to harmonic continuation, and to numerical differentiation.

**1. Introduction.** Tikhonov's method applies to the integral equation

$$(1.1) \quad \int_0^1 k(x, y) u_0(y) dy = g_0(x) \quad (0 \leq x \leq 1).$$

The problem is to find  $u_0$  if  $k$  and  $g_0$  are known.

This problem is ill-posed if  $k$  is any measurable kernel. That follows from Riemann's lemma:

$$(1.2) \quad \int_0^1 k(x, y) \sin \lambda y \, dy \rightarrow 0 \quad \text{as } \lambda \rightarrow \infty$$

which shows that a small change in the data,  $\delta g_0$ , may correspond to a large change in the answer,  $\delta u_0$ : for some large  $\lambda$ , let  $\delta g_0(x)$  equal the integral (1.2); this is a small data-change corresponding to the large answer-change  $\delta u_0(y) = \sin \lambda y$ .

Many ill-posed problems can be stated as integral equations. In this paper, we will discuss three ill-posed problems: the *backward heat equation*, *harmonic continuation*, and *differentiation*. All will be stated as integral equations. To each, we will apply Tikhonov's method, and we will find the *rate of convergence*. The rate of convergence gives an estimate of the accuracy of the computed solution.

**2. Tikhonov's Method.** We suppose that  $u_0(y)$  solves the integral equation (1.1). The kernel  $k(x, y)$  is known, and a function  $g(x)$  is known such that

$$(2.1) \quad \|g - g_0\| \leq \epsilon.$$

We will use the notation  $\|\varphi\|$  to mean the  $L_2$ -norm:

$$\|\varphi\| = \left( \int_0^1 \varphi^2(x) dx \right)^{1/2}$$

The assumption (2.1) is used instead of  $g = g_0$  because, in practical applications, the

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# Mathematics Of Computation Volume 28 No 127

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