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M E Hochstenbach and **L Reichel*** (reichel@math.kent.edu), Department of Mathematics, Kent State University, Kent, OH 44242, and **F Sgallari** and **Q Ye**. *Iterative methods for Tikhonov regularization*. Preliminary report.

We consider the solution of large-scale linear discrete ill-posed problems with the aid of Tikhonov regularization with a general regularization operator. The choice of iterative method for the solution of the Tikhonov minimization problem and the determination of the regularization parameter by the discrepancy principle is examined. (Received January 26, 2010)