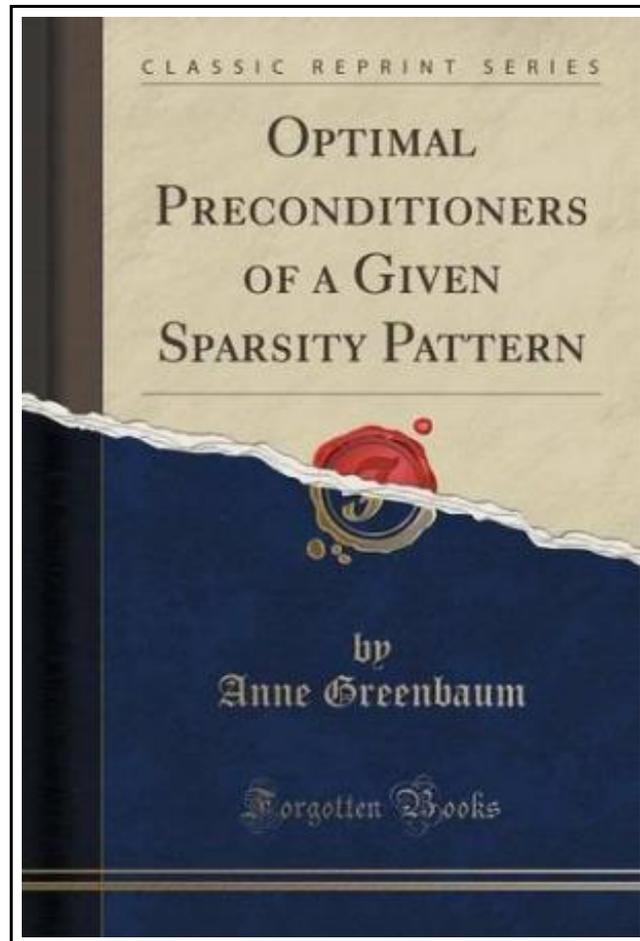


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1. Introduction. In recent years much research has focused on the problem of finding efficient preconditioners to use with various iterative methods for solving linear systems. Examples of preconditioners, or of iterative methods that can be viewed as using special preconditioners, include the incomplete Cholesky factorization (19), the Ssor preconditioner (25), multigrid methods (2), domain decomposition techniques (1), hierarchical basis functions (26), and many, many more. An efficient preconditioner M for a matrix A must possess two properties: 1.) Linear systems with coefficient matrix M must be relatively easy to solve; and 2.) The matrix M must approximate the matrix A . Many of the preconditioners that have been proposed are easy to solve because of their sparsity pattern or because they are products of known lower and upper triangular matrices with simple sparsity patterns. The sense in which M should approximate A differs according to the iterative method to be used. For fast asymptotic convergence, this quantity should be small. When the matrices A and M are symmetric and positive definite, this basic iterative method can be accelerated through use of the Chebyshev or conjugate gradient iteration. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any...



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