

Figure 1 illustrates the steps of the proposed algorithm for solving a linear system. The diagrams show the initial matrix  $A$  and vector  $b$ , the LU decomposition of  $A$  into  $L$  and  $U$ , the forward substitution to solve  $Ly = b$ , the backward substitution to solve  $Ux = y$ , and the iterative refinement process, including calculating the residual, estimating the error, and updating the solution until convergence.

Figure 1 illustrates the steps of the proposed algorithm for solving a linear system. The diagrams show the decomposition of matrix A into L and U, the forward and backward substitution, and the calculation of the residual, error norm, and condition number.

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Federal Election Commission  
Certification for MUR 4959  
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Commissioners Elliott, Mason, McDonald, Sandstrom,  
Thomas, and Wold voted affirmatively for the decision.

Attest:

February 17, 2000  
Date

Mary W. Dove  
Mary W. Dove  
Acting Secretary of the  
Commission

Received in the Secretariat: Tues., Feb. 15, 2000 2:10 p.m.  
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