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Livinus U Uko* (luko@jcsu.edu), Department of Science and Mathematics, Johnson C. Smith University, 100 Beatties Ford Road, Charlotte, NC 28216. *A modified SOR scheme for systems of linear equations*. Preliminary report.

We study a modified successive overrelaxation (SOR) scheme that is applicable to systems of linear equations with some zeros on their diagonals. Some convergence results and illustrative numerical examples are given. (Received August 25, 2005)