Gutknecht, Martin H.
Stationary and almost stationary iterative (k,l)-step methods for linear and nonlinear systems of equations. (English) Zbl 0685.65044

A general class of iterative methods is introduced. Characterizations, equivalence and convergence theorems are given. For the linear case a relation to Faber polynomials is shown. Numerical results are not given.

Reviewer: A. Galántai

MSC:
65H10 Numerical computation of solutions to systems of equations  
65F10 Iterative numerical methods for linear systems

Keywords:
almost stationary iterative methods; fixed point equation; Euler method; stationary semiiterative method; Chebyshev iteration; Characterizations; equivalence; convergence; Faber polynomials

Full Text: DOI EuDML

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