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To generalization of the Newton-Kantorovich theorem. (English) Zbl 1399.15024
Visn. Khark. Univ., Ser. Mat. Prykl. Mat. Mekh. 85, 62-68 (2017).

Summary: Constructive conditions for solvability are obtained, as well as an iterative scheme for finding solutions of the nonlinear equation that generalize the well-known Newton-Kantorovich theorem. The case of nonlinear equation whose dimension does not coincide with the dimension of the unknown is investigated.

MSC:

[15A24](#) Matrix equations and identities

[15A09](#) Theory of matrix inversion and generalized inverses

Cited in **3** Documents

Keywords:

[Newton-Kantorovich method](#); [iterative scheme](#); [nonlinear equation](#); [pseudoinverse matrix](#)

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