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A fixed point theorem in partially ordered sets and some applications to matrix equations.

(English) [Zbl 1060.47056](#)

Proc. Am. Math. Soc. 132, No. 5, 1435-1443 (2004).

The authors prove an analogue of Banach's fixed point theorem in partially ordered sets, and discuss several applications to linear and nonlinear matrix equations.

Reviewer: [Ulrich Kosel \(Freiberg\)](#)

MSC:

[47H10](#) Fixed-point theorems

[15A24](#) Matrix equations and identities

[54H25](#) Fixed-point and coincidence theorems (topological aspects)

Cited in **33** Reviews
Cited in **750** Documents

Keywords:

[fixed points](#); [matrix equations](#); [partially ordered sets](#)

Full Text: [DOI](#)