

# Partial proximal point method for nonmonotone equilibrium problems

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## Abstract

We consider a general equilibrium problem defined on a convex set, whose cost bifunction may be nonmonotone. We show that this problem can be solved by the inexact partial proximal point method. These results can be viewed as a generalization of the known convergence properties of the usual proximal point method.

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## Keywords

Equilibrium problems, Nonmonotone bifunctions, Partial proximal method