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An existence theorem for extended mildly nonlinear complementarity problem in semi-inner product spaces

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Abstract: We prove a result for the existence and uniqueness of the solution for a class of mildly nonlinear complementarity problem in a uniformly convex and strongly smooth Banach space equipped with a semi-inner product. We also get an extension of a nonlinear complementarity problem over an infinite dimensional space. Our last results deal with the existence of a solution of mildly nonlinear complementarity problem in a reflexive Banach space.

Keywords: strongly smooth Banach space, mildly nonlinear complementarity problem

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