GENERALIZED NONEXPANSIVE MULTIVALUED MAPPINGS IN STRICTLY CONVEX BANACH SPACES

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Abstract. In this paper, we present some common fixed point results for a commuting pair of mappings, including a quasi-nonexpansive single valued mapping and a generalized nonexpansive multivalued mapping in strictly convex Banach spaces, as well as for a pointwise asymptotically nonexpansive mapping and a generalized nonexpansive multivalued mapping in uniformly convex Banach spaces. The results we obtain extend and improve some known results due to Garcia-Falset et al. (2011), Kirk and Massa (1990), Espinola et al. (2011), Kaewcharoen and Panyanak (2011) as well as that of Abkar and Eslamian (2010).

Key Words and Phrases: Common fixed point, pointwise asymptotically nonexpansive mapping, quasi-nonexpansive mapping, generalized nonexpansive multivalued mapping, strictly convex Banach space.

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References


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