

**FIXED POINT THEORY FOR MULTIVALUED MAPS IN
FRÉCHET SPACES VIA DEGREE AND INDEX THEORY**

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Abstract

New fixed point results are presented for multivalued maps defined on subsets of a Fréchet space E . The proof relies on the notion of a pseudo open set, degree and index theory, and on viewing E as the projective limit of a sequence of Banach spaces.

Keywords: multivalued maps, Fréchet space, degree and index theory, projective limit.

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