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Estimation of the number of points of a preimage on the complement. (Russian, English)

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Summary: For the relative preimage problem, the question of estimation of the number of preimage points on the complement to the second space of a pair is considered. A minimization theorem and also a theorem on simultaneous minimization on the complement and on the whole space are obtained. As a corollary, we give a result on the preimage problem for a system of pair mappings, with special cases the coincidence problem and the common root problem for a finite number of pair mappings.

MSC:

55M20 Fixed points and coincidences in algebraic topology

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

Cited in **2** Documents

Keywords:

linearization theorem; simultaneous minimization; coincidence; common root; relative Nielsen theory