ABOUT OPERATOR INCLUSIONS
WITH SURJECTIVE OPERATORS

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The present paper is devoted to learning inclusions of the sort $a(x) \in F(x)$, where a is a closed linear surjective operator, F is multivalued mapping.

The inclusions of such sort immediately arise at learning the differential equations and controlled systems. In the paper the conditions of solvability are clarified and are studied properties of the set of solutions of such inclusions (topological dimension and unboundedness of this set). In the conclusion of paper the obtained theorems are applied to learning a certain abstract controlled system with feedback.