Source:

1 | Axler 3.A source

2 | invariant subspace def

Suppose $T \in \mathcal{L}(V)$. A subpsace U of V is called *invariant* under T if $u \in U$ implies $Tu \in U$.

2.1 | intuit

A subspace U is called invariant on T if $T\big|_U$