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On spectra of operators of finite strict multiplicity. (English) Zbl 0771.47001

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Summary: It is proved that if an operator T on a Banach space generates an operator algebra of strict multiplicity n satisfying condition S_n , then the spectrum of its adjoint consists entirely of eigenvalues and corresponding eigenspaces are all n -dimensional, and in addition, if X is reflexive, then any λ in $\tau(T)$ with $|\lambda| = \|T\|$ is an isolated point of $\sigma(T)$. Some non-normal operators in such algebras on a Hilbert space are also discussed.

MSC:

47A10 Spectrum, resolvent

Cited in 1 Document

Keywords:

operator algebra of strict multiplicity n satisfying condition S_n ; spectrum of its adjoint; eigenvalues; eigenspaces; non-normal operators