

A GENERALIZATION OF COHEN'S THEOREM.

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ABSTRACT

In this thesis, the researcher introduced the classes of strongly prime and one-sided strongly prime submodules and used these classes to characterize Noetherian modules. The researcher gave a new characterization of Noetherian modules, following which a finitely generated right R -module M is Noetherian if and only if every one-sided strongly prime submodule is finitely generated. This result can be considered as a generalization of Cohen's Theorem.

KEY WORDS : COHEN'S THEOREM/STRONGLY PRIME SUBMODULES
ONE-SIDED STRONGLY PRIME SUBMODULES
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