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On Summand Sum and Summand Intersection Property of Modules

of

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<u>Abstract:</u> R will be an associative ring with identity and modules M will be unital left R- modules. In this work, extending modules and lifting modules with the SSP (or SIP) are studied. A necessary and sufficient condition for a module M to have the SSP is that for every decomposition $M = A \cap B$ and $A \cap B$, $A \cap B$, A



Key Words: SIP modules, SSP modules, extending modules, lifting modules.

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