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Modules Supplemented Relative to A Torsion Theory

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Keywords Authors Abstract: This article introduces the concept of a τ -supplemented module as follows: Given a hereditary torsion theory in Mod R with associated torsion functor τ , we say that a module M is τ -supplemented when for every submodule N of M there exists a direct summand K of M such that K\leq N and N/K is τ -torsion module. We present here some fundamental properties of this class of modules and study the decompositions of τ -supplemented modules under certain conditions on modules. The question of which direct sum of τ -supplemented R-modules are τ -supplemented is treated here.



Key Words: Torsion Theory, Supplemented Module

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