



Rings over which every module has a flat δ -cover

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Let M be a module. A δ -cover of M is an epimorphism from a module F onto M with a δ -small kernel. A δ -cover is said to be a flat δ -cover in case F is a flat module. In the present paper, we investigate some properties of (flat) δ -covers and flat modules having a projective δ -cover. Moreover, we study rings over which every module has a flat δ -cover and call them right generalized δ -perfect rings. We also give some characterizations of δ -semiperfect and δ -perfect rings in terms of locally (finitely, quasi-, direct-) projective δ -covers and flat δ -covers.

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