Wang, Juntao; Xiao, Jiaping; Wang, Shenqiao; Guo, Jingxian; Chen, Pengying; Cheng, Song
On generalized derivations of MV-algebras. (Chinese. English summary) [Zbl 07448869]

Summary: Using the endomorphism of MV-algebras, the notion of generalized derivations of MV-algebras
is introduced, which extends $(\rightarrow, \oplus)$-derivation, and some related properties are investigated. Moreover,
the concept of principal central generalized derivations is given, and the relations between them and other
derivations on MV-algebra are discussed. Finally, Boolean algebras by the fixed set of strong principal
center generalized derivations are characterized.

MSC:
06D35 MV-algebras
06E05 Structure theory of Boolean algebras

Keywords:
MV-algebras; endomorphism; generalized derivations; Boolean algebras

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