

bi-BL-ALGEBRA

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Abstract

In this paper, we introduce the notion of a *bi-BL-algebra*, *bi-filter*, *bi-deductive system* and *bi-Boolean elements* of a *bi-BL-algebra* and deal with *bi-filters* in *bi-BL-algebra*. We study this structure and construct the quotient of *bi-BL-algebra*. Also present a classification for examples of proper *bi-BL-algebras*.

Keywords: *bi-BL-algebra*, *bi-filter*, *bi-deductive system*, *bi-Boolean elements* of a *bi-BL-algebra*.

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