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Summary: In this paper, we investigate the relationship between dual (Weak) Subtraction algebras, Heyting algebras and BE-algebras. In fact, the purpose of this paper is to show that BE-algebra is a generalization of Heyting algebra and dual (Weak) Subtraction algebras. Also, we show that a bounded commutative self distributive BE-algebra is equivalent to the Heyting algebra.

MSC:
06F35 BCK-algebras, BCI-algebras
03G25 Other algebras related to logic
06D20 Heyting algebras (lattice-theoretic aspects)

Keywords:
Heyting algebra; implication algebra; Hilbert algebra; BE-algebra; CI-algebra; KU-algebra; dual W-algebra; dual S-algebra; dual S-algebra; dual Q-algebra; dual BCK-algebra

Full Text: Link