

## CHARACTERIZATION OF ALMOST SEMI-HEYTING ALGEBRA

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### Abstract

In this paper, we initiate the discourse on the properties that hold in an almost semi-Heyting algebra but not in a semi-Heyting almost distributive lattice. We establish an equivalent condition for an almost semi-Heyting algebra to become a Stone almost distributive lattice. Moreover a glance about dense elements in an almost semi-Heyting algebra followed by study of some algebraic properties on them. Finally, we perceive that the kernel of homomorphism is equal to the dense element set.

**Keywords:** almost distributive lattice, semi-Heyting almost distributive lattice, almost semi-Heyting algebra, dense element and stone almost distributive lattice.

**2010 Mathematics Subject Classification:** Primary 06D99; Secondary 06D20.

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Received 10 October 2019

Revised 11 February 2020

Accepted 26 June 2020