



## **TENSE OPERATORS ON $SHn$ -ALGEBRAS**

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### **Abstract**

In 1982, L. Iturrioz introduced symmetrical Heyting algebras of order  $n$  (or  $SHn$ -algebras). In this paper, we define and study tense  $SHn$ -algebras namely,  $SHn$ -algebras endowed with two tense operators. These algebras constitute a generalization of tense Łukasiewicz-Moisil algebras. Our main interest is the duality theory for tense  $SHn$ -algebras. In order to do this, we require Esakia's duality for Heyting algebras and Goldblatt's duality for bounded distributive lattices with operations.

**Keywords and phrases:**  $SHn$ -algebras, tense operators, topological duality.

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