

**CHAPTER 6**  
**BOOLEAN ALGEBRA**

**Boolean Operation**

The **complement** of an element, denoted with a bar, is defined by  $\bar{0} = 1$  and  $\bar{1} = 0$ . The Boolean sum, denoted by  $+$  or by *OR*, has the following values:

$$1 + 1 = 1, 1 + 0 = 1, 0 + 1 = 1, 0 + 0 = 0.$$

The Boolean product, denoted by  $\cdot$  or by *AND*, has the following values:

$$1 \cdot 1 = 1, 1 \cdot 0 = 0, 0 \cdot 1 = 0, 0 \cdot 0 = 0.$$

**Example:**

Find the value of  $1 \cdot 0 + \overline{(0 + 1)}$ .

**Solution:**

Using the definitions of complementation, the Boolean sum, and the Boolean product, it follows that

$$1 \cdot 0 + \overline{(0 + 1)} = 0 + \bar{1} = 0 + 0 = 0.$$

**Boolean Identities**

<b>TABLE 5 Boolean Identities.</b>	
<i>Identity</i>	<i>Name</i>
$\overline{\bar{x}} = x$	Law of the double complement
$x + x = x$ $x \cdot x = x$	Idempotent laws
$x + 0 = x$ $x \cdot 1 = x$	Identity laws
$x + 1 = 1$ $x \cdot 0 = 0$	Domination laws
$x + y = y + x$ $xy = yx$	Commutative laws
$x + (y + z) = (x + y) + z$ $x(yz) = (xy)z$	Associative laws
$x + yz = (x + y)(x + z)$ $x(y + z) = xy + xz$	Distributive laws
$\overline{(xy)} = \bar{x} + \bar{y}$ $\overline{(x + y)} = \bar{x} \bar{y}$	De Morgan's laws
$x + xy = x$ $x(x + y) = x$	Absorption laws
$x + \bar{x} = 1$	Unit property
$x\bar{x} = 0$	Zero property

# Chapter No 6 Boolean Algebra Shakarganj

**Jane Galbraith Shell**



## Chapter No 6 Boolean Algebra Shakarganj:

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