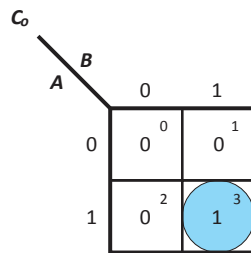


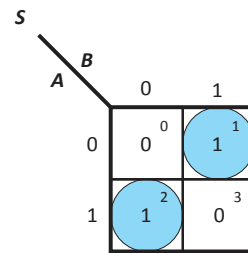
FIGURE 3.19.1 Binary Half-Adder

Addend <i>A</i>	Augend <i>B</i>	Carry <i>C_o</i>	Sum <i>S</i>
0	0	0	0
0	1	0	1
1	0	0	1
1	1	1	0

TABLE 3.9
Truth Table for a Half-Adder



$$C_o = AB$$



$$S = A'B + AB'$$

$$S = A \oplus B$$

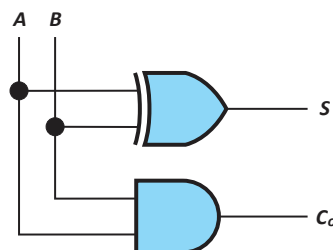


FIGURE 3.20 Logic Diagram for a Half-Adder