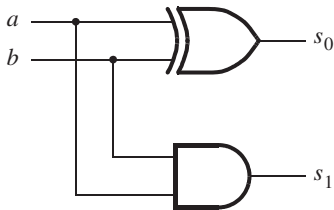


a	0	0	1	1
$+b$	$+0$	$+1$	$+0$	$+1$
$\hline s_1 s_0$	0 0	0 1	0 1	1 0

(a) Evaluation of $S = a + b$

a	b	s_1	s_0
0	0	0	0
0	1	0	1
1	0	0	1
1	1	1	0

(b) Truth table



(c) Logic network

Figure 2.12 Addition of binary numbers.