w_1	w_2	w_3	f
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	1

w_1	w_2	f
0	0	0
0	1	w_3
1	0	w_3
1	1	1

(a) Modified truth table
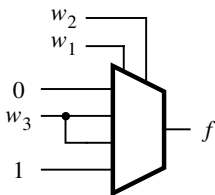
(b) Circuit

Figure 4.7   Implementation of the three-input majority function using a 4-to-1 multiplexer.