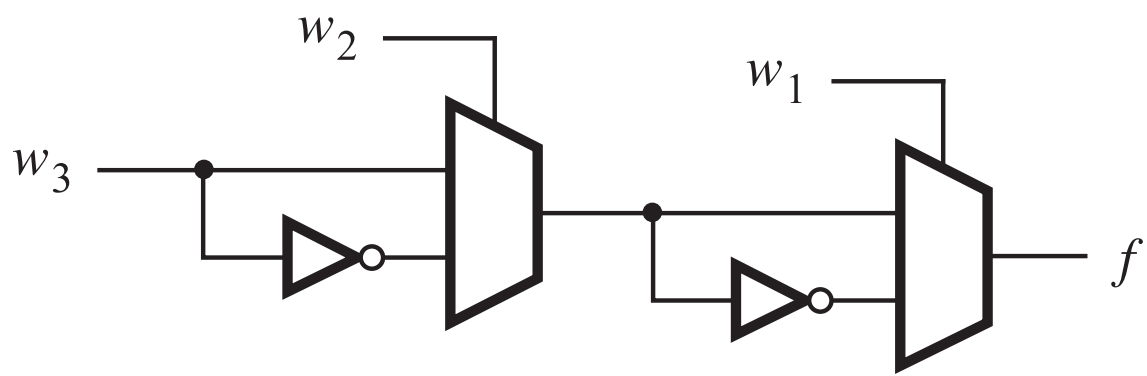
w_1	w_2	w_3	f	
0	0	0	0	$w_2 \oplus w_3$
0	0	1	1	
0	1	0	1	
0	1	1	0	
1	0	0	1	$\overline{w_2 \oplus w_3}$
1	0	1	0	
1	1	0	0	
1	1	1	1	

(a) Truth table



(b) Circuit

Figure 4.8 Three-input XOR implemented with 2-to-1 multiplexers.