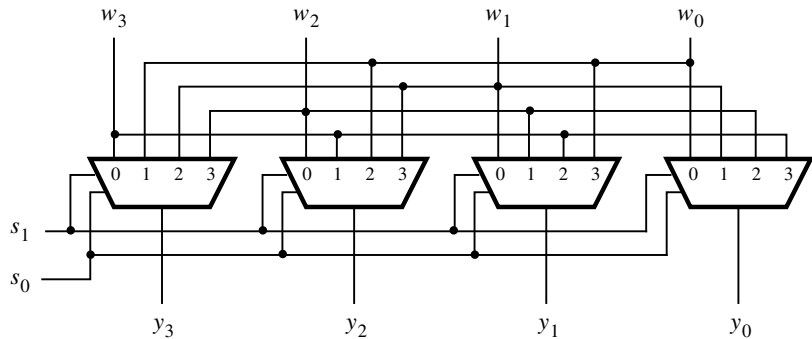


| s_1 | s_0 | y_3 | y_2 | y_1 | y_0 |
|-------|-------|-------|-------|-------|-------|
| 0 | 0 | w_3 | w_2 | w_1 | w_0 |
| 0 | 1 | w_0 | w_3 | w_2 | w_1 |
| 1 | 0 | w_1 | w_0 | w_3 | w_2 |
| 1 | 1 | w_2 | w_1 | w_0 | w_3 |

(a) Truth table



(b) Circuit

Figure 4.51 A barrel shifter circuit.