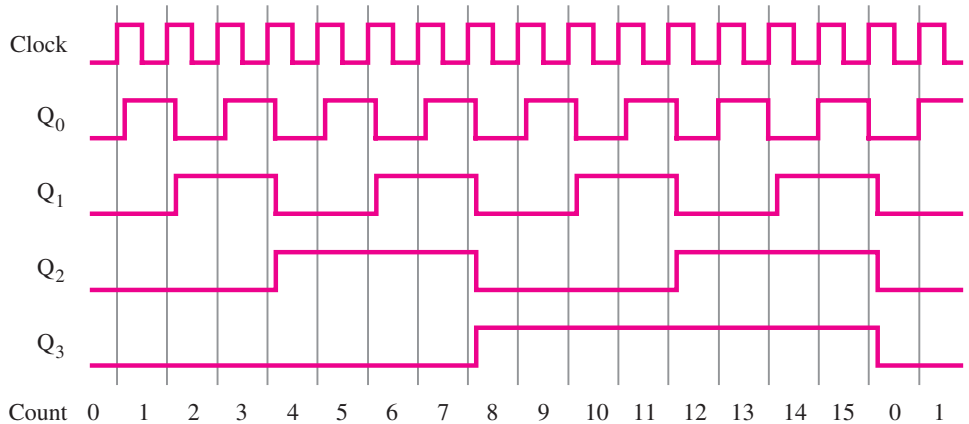


(a) Circuit



(b) Timing diagram

Figure 7.22 A four-bit synchronous up-counter.