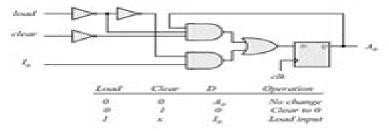
1,340

6.1 The structure shown below gates the clock through a nand gate. In practice, the circuit can exhibit two problems if the load signal is asynchronous: (1) the gated clock arrives in the setup interval of the clock of the flip-flop, causing metastability, and (2) the load signal truncates the width of the clock pulse. Additionally, the propagation delay through the nand gate might compromise the synchronicity of the overall circuit.



6.2 Modify Fig. 6.2, with each stage replicating the first stage shown below:



Note: In this design, load has priority over clear.

6.3 Serial data is transferred one bit at a time. Parallel data is transferred n bits at a time (n > 1).

A shift register can convert serial data into parallel data by first shifting one bit a time into the register and then taking the parallel data from the register outputs.

A shift register with parallel load can convert parallel data to a serial format by first loading the data in parallel and then shifting the bits one at a time.

- 6.4 101101 ⇒ 1101; 0110; 1011; 1101; 0110; 1011
- 6.5 (a) See Fig. 11.19; IC 74194
  - (b) See Fig. 11.20. Connect two 74194 ICs to form an 8-bit register.

# **Digital Logic And Computer Design Solution Manual**

**Lingjun Ying** 

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