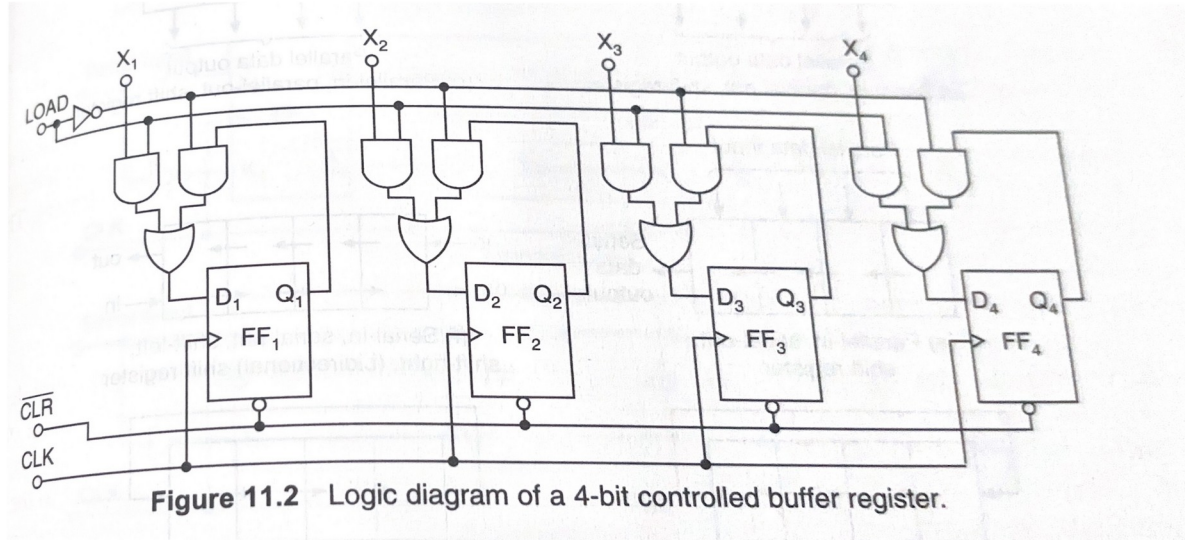


# Switching Circuit & Logic Design

Lecture 23 : Register

# Buffer Register

# Controlled Buffer Register



# Data Transmission

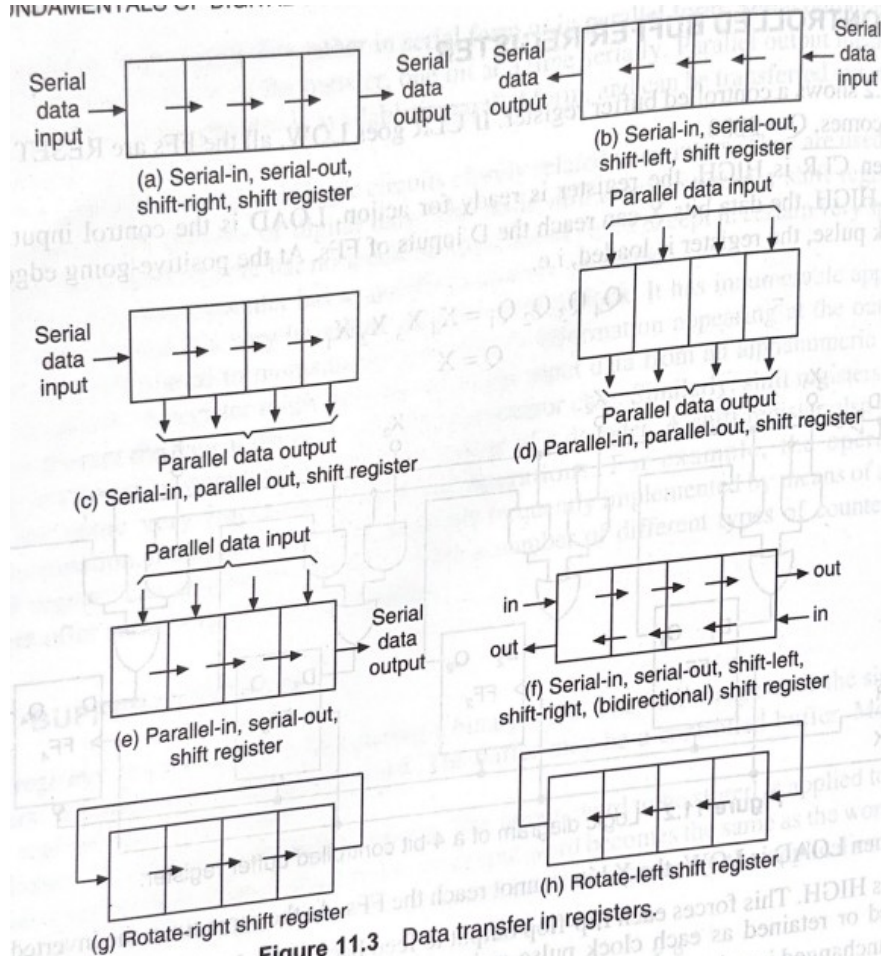
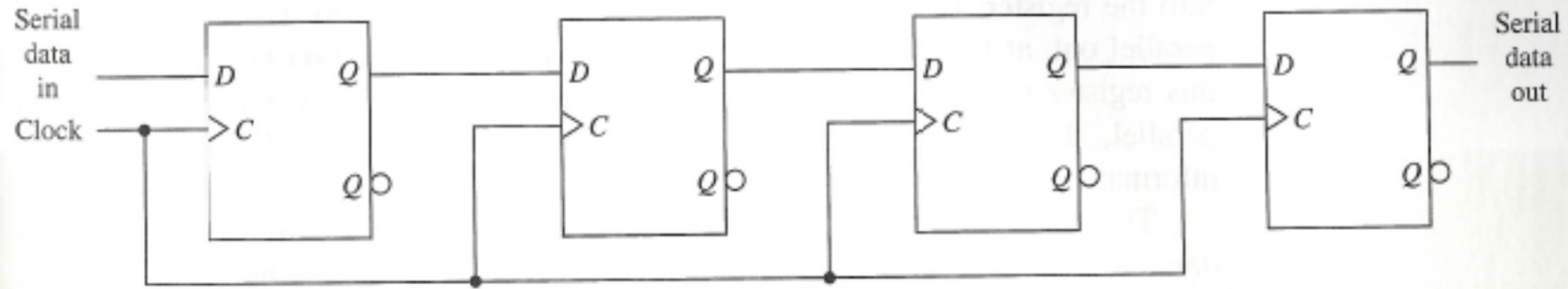


Figure 11.3

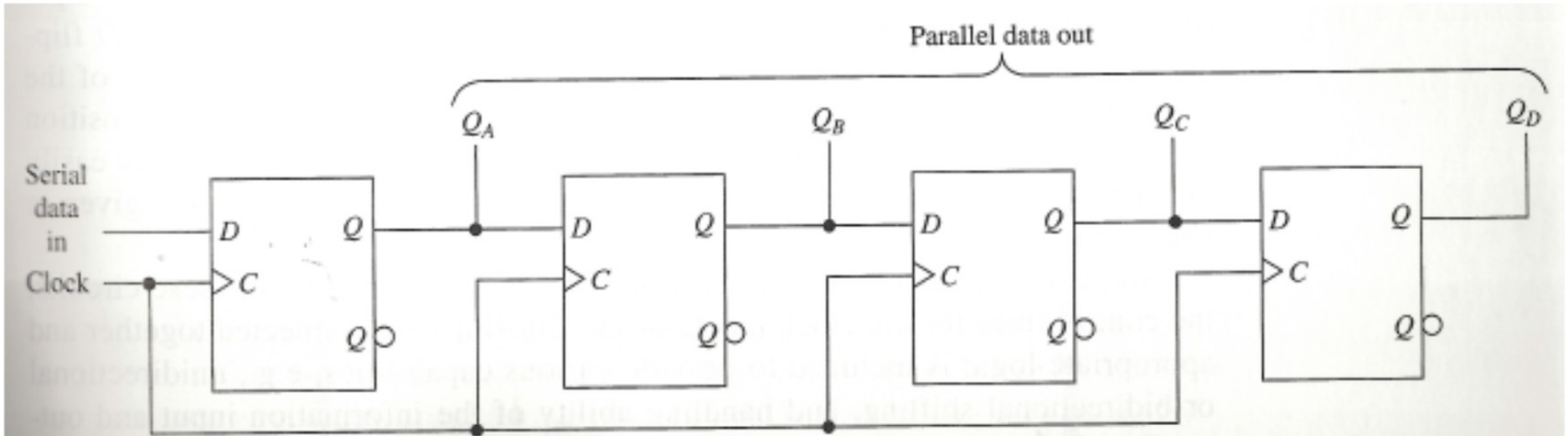
Data transfer in registers.

# Serial-in Serial-out



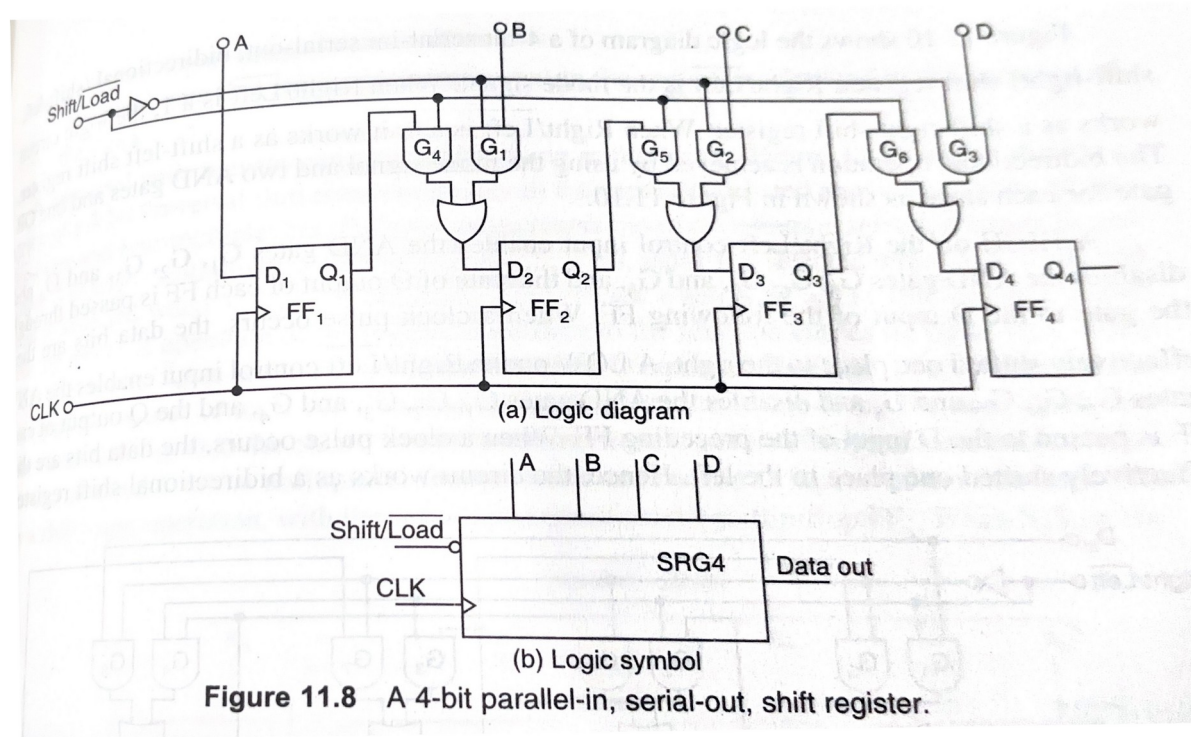
**Figure 6.26** Serial-in, serial-out unidirectional shift register.

# Serial-in Parallel-out



**Figure 6.27** Serial-in, parallel-out unidirectional shift register.

# Parallel-in Serial-out



# Parallel-in Parallel-out

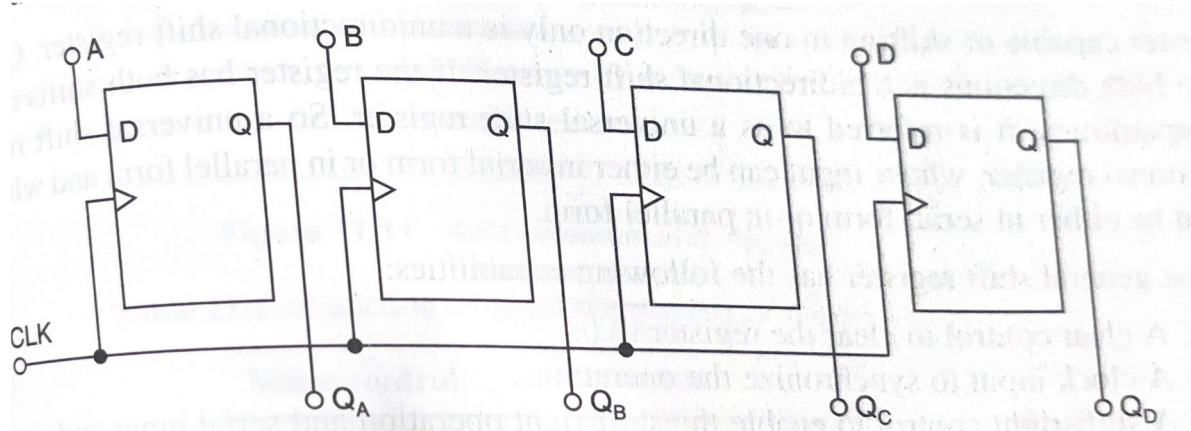
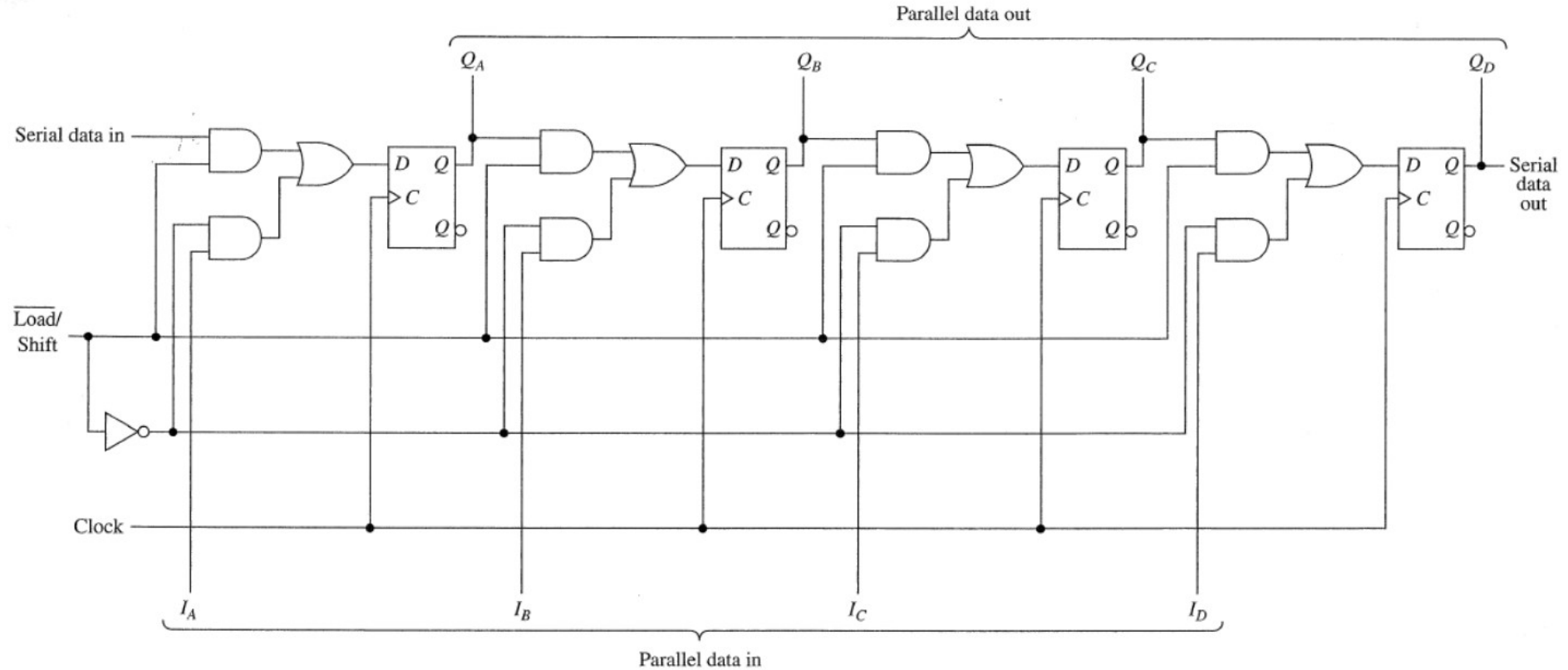


Figure 11.9 Logic diagram of a 4-bit parallel-in, parallel-out, shift register.

# Bidirectional Shift Register



**Figure 6.28** Parallel-in unidirectional shift register.