

3. If a collision is detected during transmission, transmit a brief jamming signal to assure that all stations know that there has been a collision and then cease transmission.
4. After transmitting the jamming signal, wait a random amount of time, then attempt to transmit again (repeat from step 1).

Figure 14.1 illustrates the technique for a baseband bus. At time  $t_0$ , station A begins transmitting a packet addressed to D. At  $t_1$ , both B and C are ready to transmit. B senses a transmission and so defers. C, however, is still unaware of A's transmission (because the leading edge of A's transmission has not yet arrived

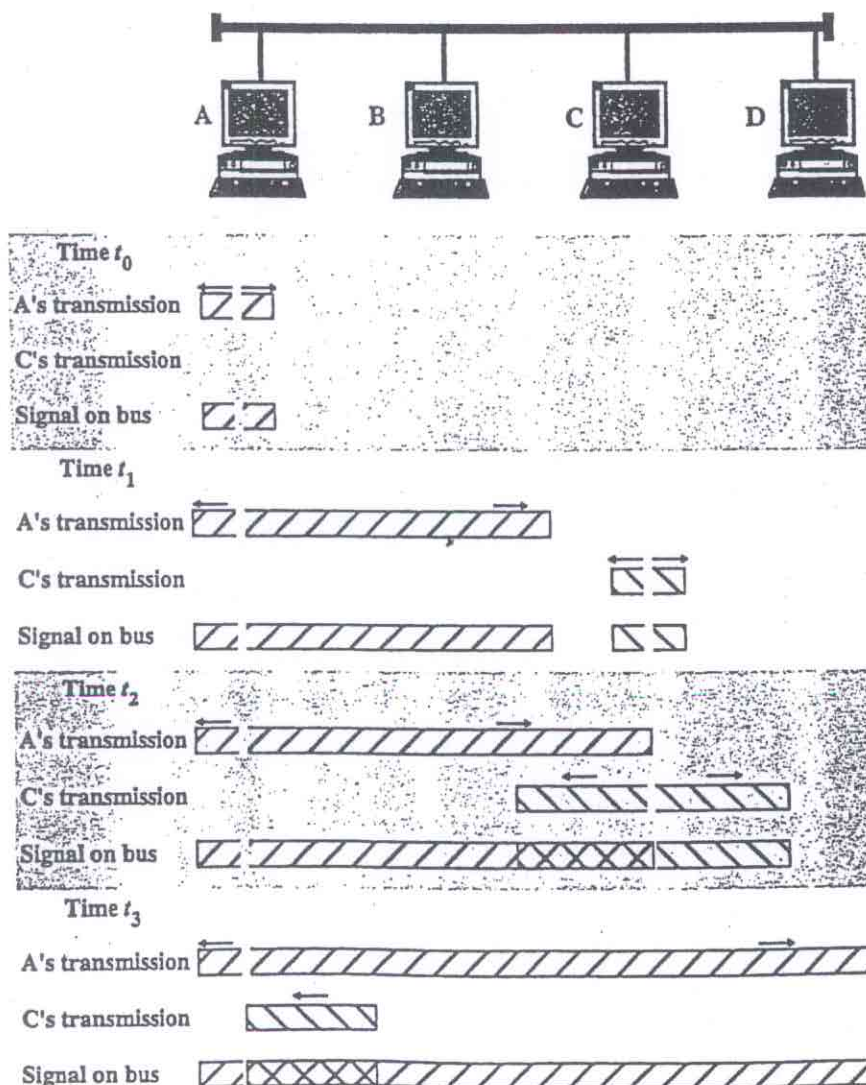


Figure 14.1 CSMA/CD Operation

ETHERNET SPECIFICATION: Data Link Layer  
(the original Ethernet specification by DEC, XEROX, and INTEL)

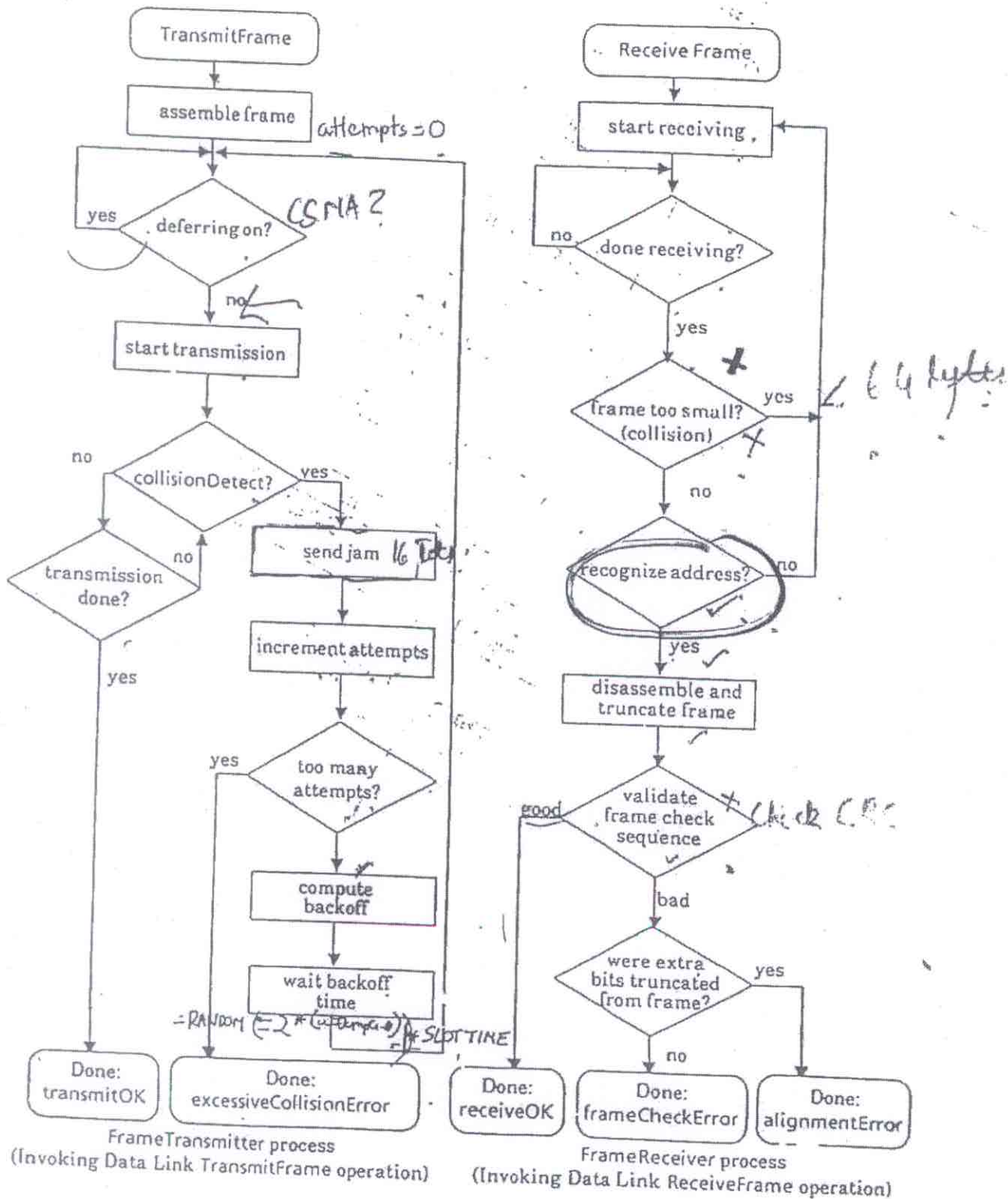
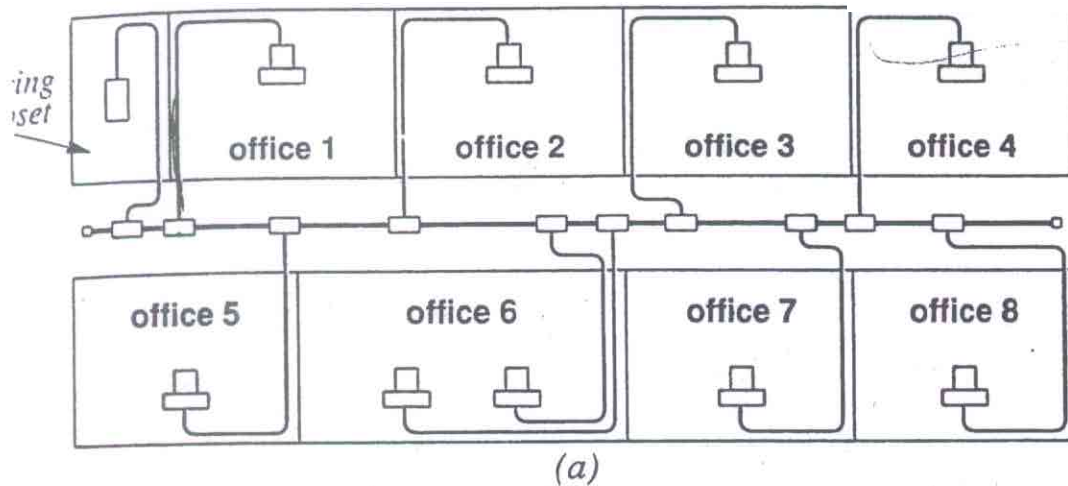


Figure 6-3: Control Flow Summary -- Client Layer Processes

SLOT TIME = 51.2 usec



10 base 5  
THICKNET

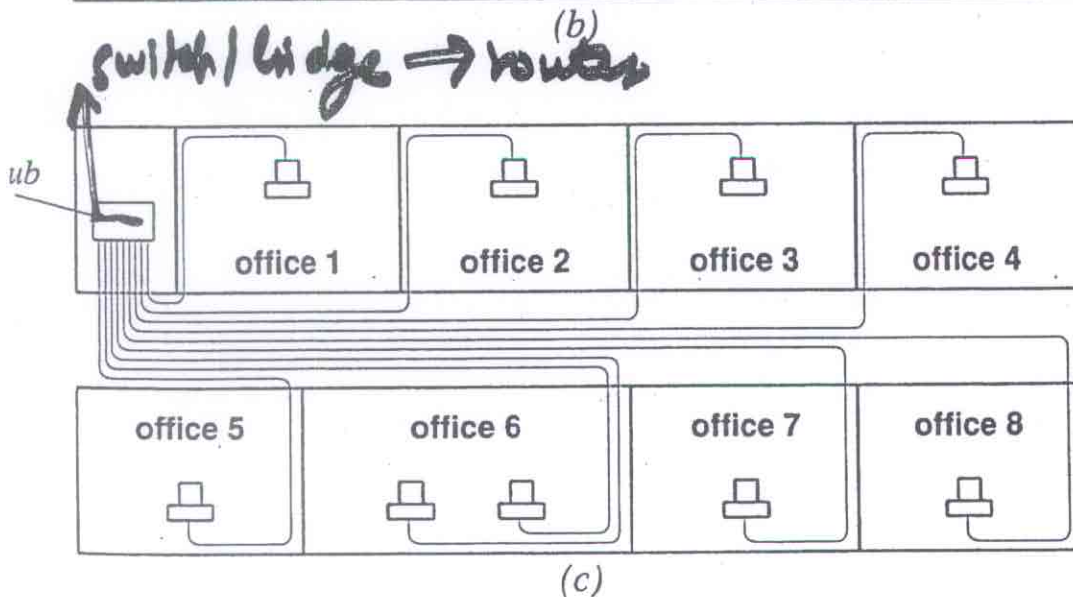
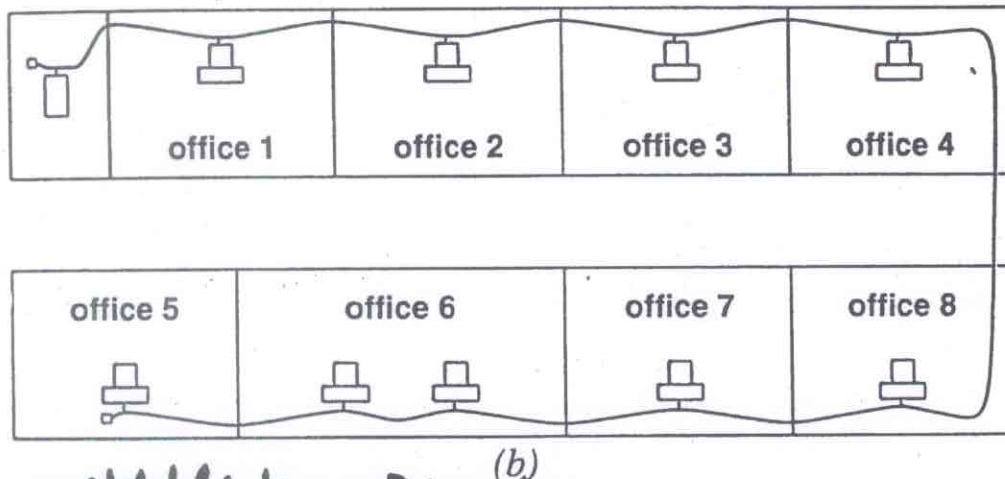


Figure 9.7 Illustration of computers in eight offices wired with (a) thick, (b) thin, and (c) 10Base-T (twisted pair) Ethernet. Wires can run above the ceiling or under a raised floor. A wiring closet may contain a hub or equipment used for network monitoring, control, or debugging.