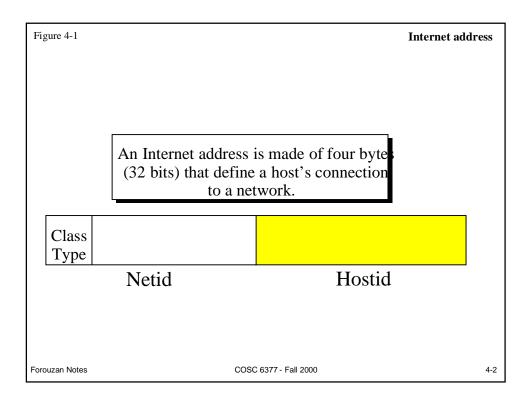
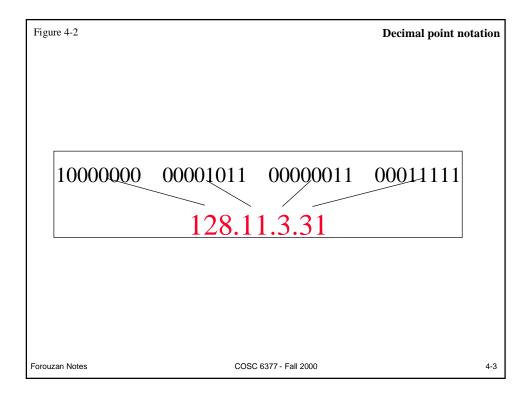
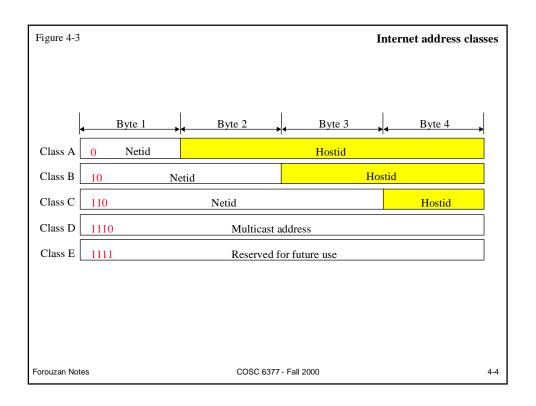
# Chapter 4 **IP Addressing**

- Decimal Notation
- Classes
- Special Addresses
- A Sample Internet
- Unicast, Multicast, and Broadcast Addresses
- Applying for IP Addresses
- Private Networks

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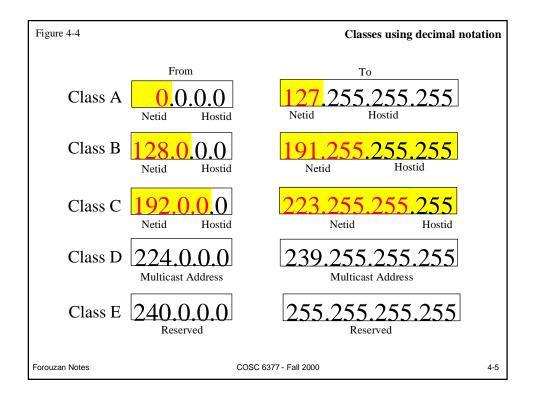
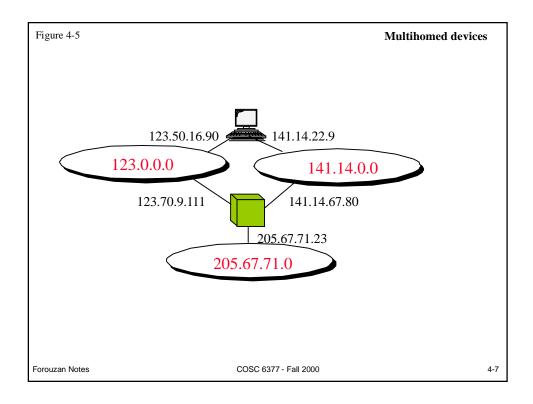


Table 4-1			Numbers	in classes
	Class	Number of Networks	Number of Hosts	
	A	$2^7 - 2 = 126$	$2^{24} - 2 = 16,777,214$	
	В	$2^{14} = 16,384$	$2^{16} - 2 = 65,535$	
	С	$2^{21} = 2,097,152$	$2^8 - 2 = 254$	
	D	Not Applicable	Not Applicable	
	Е	Not Applicable	Not Applicable	
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## Types of addresses

- Introduced at layer 2 ex. Ethernet MAC address
- Addresses at layer 3 are IP
- Packets to specific computer are unicast
- Packets to groups of computers are *broadcast* or *multicast*
- 4.3 deals with broadcasts

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	Special Address	Netid	Hostid	Source or Destination
	Network address	Specific	All 0s	None
	Direct broadcast address	Specific	All 1s	Destination
	Limited broadcast address	All 1s	All 1s	Destination
y?	This host on this network	All 0s	Specific	Destination
	Loopback address	127	Any	Destination
		•		

