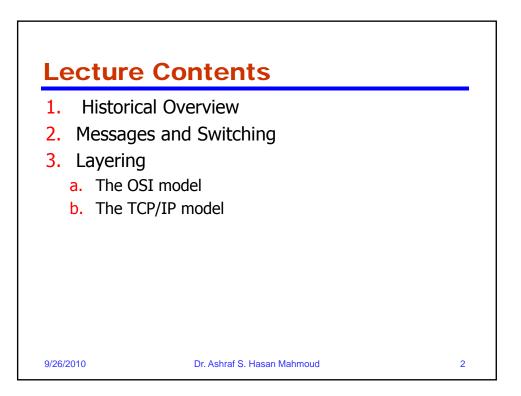
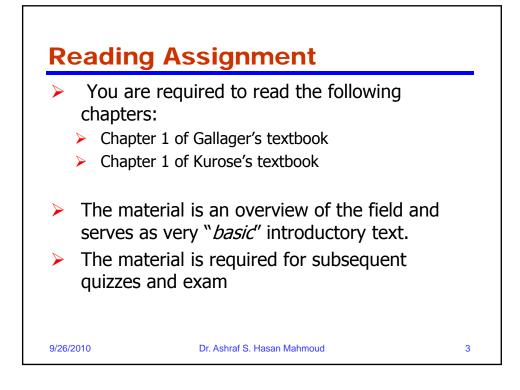
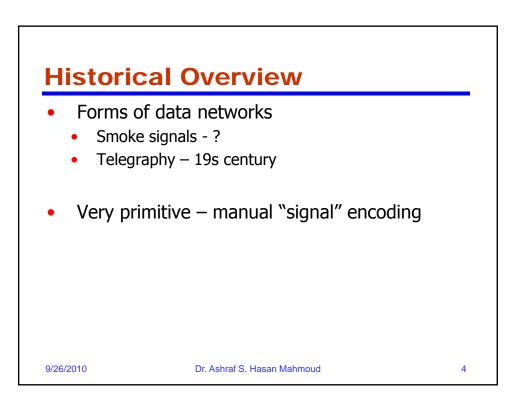
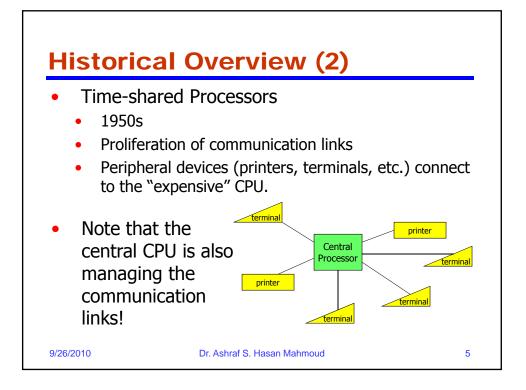
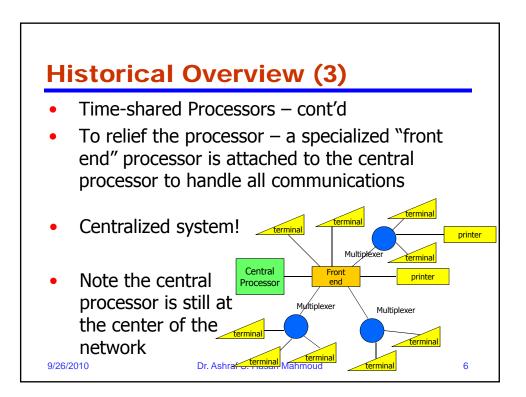
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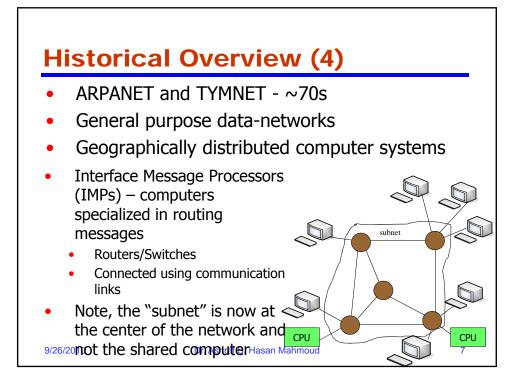


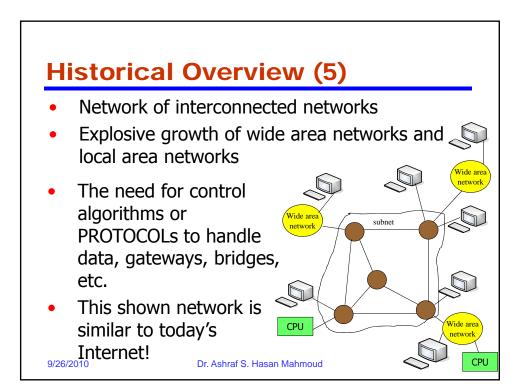


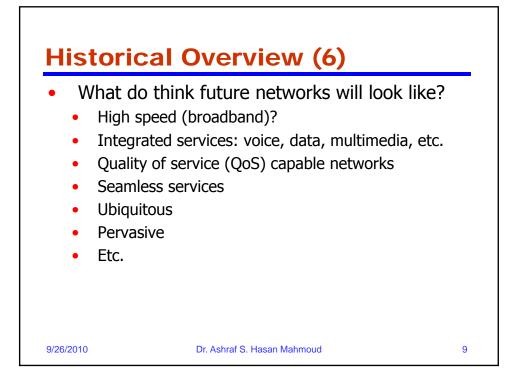




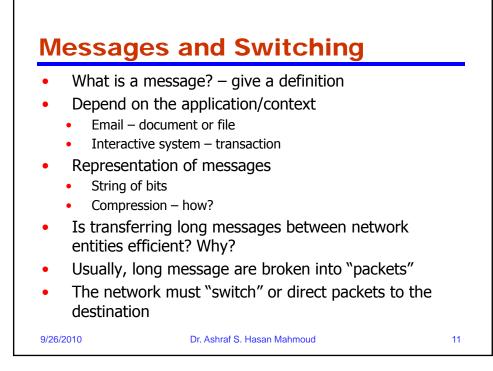


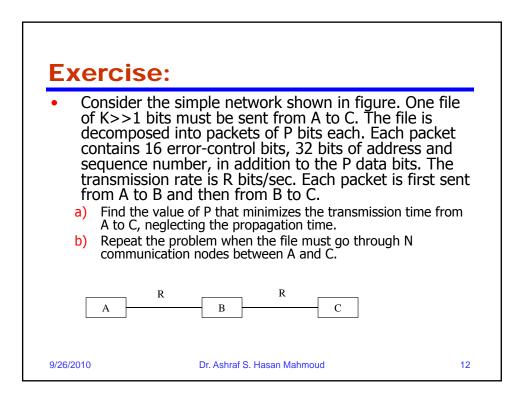


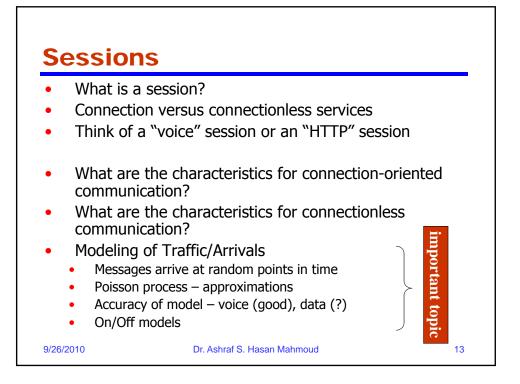


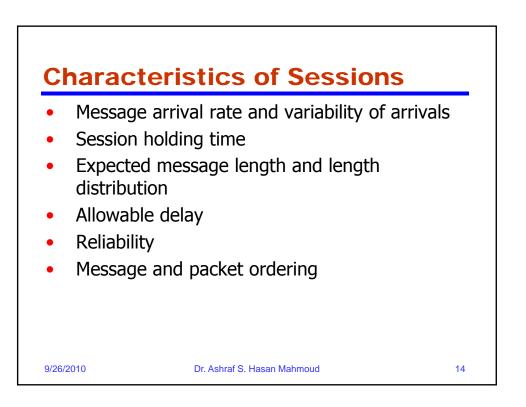


Factors		
<ul> <li>Computers can de</li> <li>Communication Te</li> <li>Evolution of link s</li> <li>New links – 64 kb</li> <li>Bandwidth sharing</li> <li>Cost for media –</li> <li>Transmission cost for optical fiber transmission for da</li> <li>Applications for da</li> <li>Remote access of</li> </ul>	es in VLSI, CPU prices are halved every six-to th more processing power built in more – network has to cope chnology peeds: 2.4, 4.8, 9.6 and 56 kb/s /s, 1.5 Mb/s, 45 Mb/s, etc. Pr versus optical : dominates wide area data network, droppin ansmission, and is never an issue for LANs ta networks "super" computers – early – now (killer application?)	
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## **Circuit Switching versus Store-and-Forward Switching**

- Circuit switching:
  - A dedicated path is established between two ends
  - Resources are reserved for session justified when link utilization is expected to be high
  - Usually FDM, TDM, or CDMA based
  - Appropriate for CBR type traffic rarely used for data
  - Eg. Telephony
  - Involves: call setup, data exchange, call termination
- Store-and-Forward switching:
  - The processing is done on the packet level
  - Intermediate nodes receive and process (switch) packets
  - Different packets may go different routes
  - No call setup
  - Resources are not reserved but utilized as required
  - Appropriate for VBR type traffic

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