Chapter 5: Summary

- principles behind data link layer services:
  - error detection, correction
    - Parity
    - CRC
  - sharing a broadcast channel: multiple access
    - Channel Partitioning
    - Random Access
    - Turn-taking
  - link layer addressing, ARP

Chapter 5: Summary

- various link layer technologies
  - Ethernet
    - Encapsulation – what's in an ethernet header
    - hubs, bridges, switches
      - Configurations
      - Spanning tree for bridges and switches - why
  - IEEE 802.11 Wireless LANs
    - CSMA/CA
  - PPP
    - Encapsulation scheme

Chapter 5: Summary

- link layer technology - continued
  - ATM
    - Cell concept: advantages and disadvantages of a small cell-size
    - AAL-5 Encapsulation – how does it work
    - ATM Quality of Service attributes
  - Frame Relay
    - Think about: what are the relative advantages of ATM and Frame Relay

Onward …

- Chapter 7 – Security & Chapter 8 Network Management
  - 8.5 – in preparation for project 4
  - 7.1, 7.2, 7.4, 7.8