

# Chapter 5 (5A)

## Link Layer

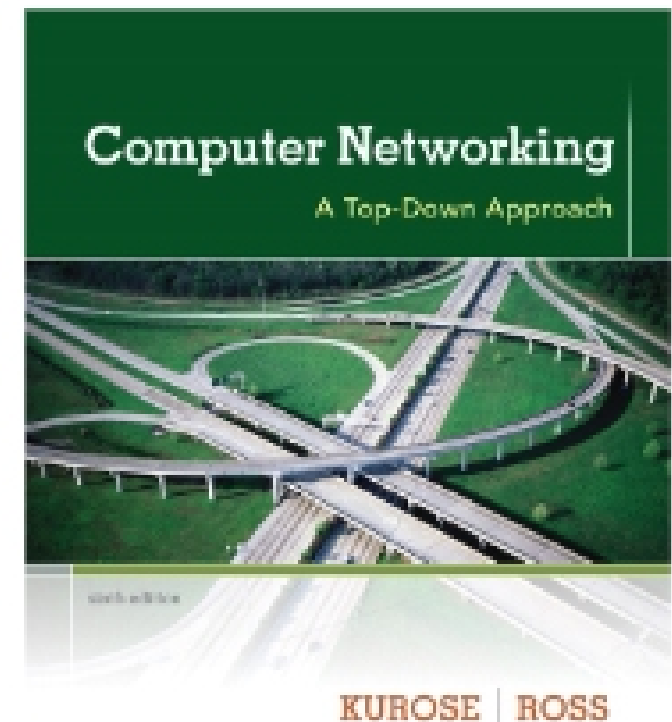
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*Computer  
Networking: A  
Top Down  
Approach  
6<sup>th</sup> edition  
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# Chapter 5: Link layer

## *our goals:*

- ❖ understand principles behind link layer services:
  - error detection, correction
  - sharing a broadcast channel: multiple access
  - link layer addressing
  - local area networks: Ethernet, VLANs
- ❖ instantiation, implementation of various link layer technologies

# Link layer, LANs: outline

5.1 introduction,  
services

5.2 error detection,  
correction

5.3 multiple access  
protocols

5.4 LANs

- addressing, ARP
- Ethernet
- switches
- VLANs

5.5 link virtualization:  
MPLS

5.6 data center  
networking

5.7 a day in the life  
of a web request