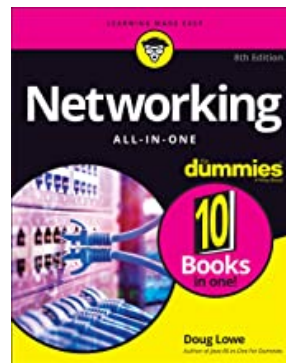
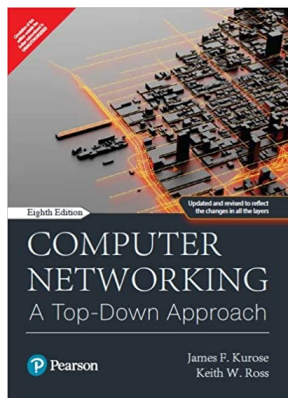


## Best Books 2023 for beginners

- Computer Networking: A Top-Down Approach (6th Edition)
- Networking All-in-One For Dummies
- CCNA 200-301 Official Cert Guide Library
- Network Warrior

*Referens: <https://www.geeksforgeeks.org/best-computer-networks-books/>*

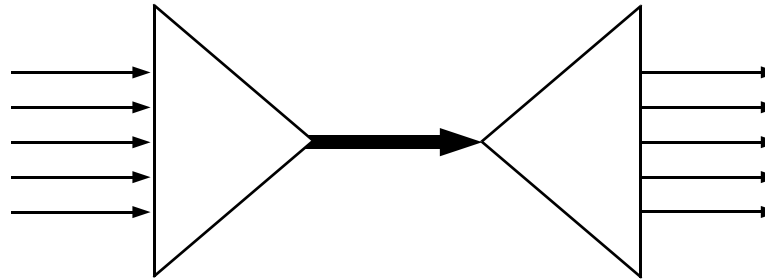


## *Ethernet Switch*



- *Connects different devices in a network.*
- *Distribute each packet to a corresponding device.*
- *Apply **packet switching** to receive/forward data.*
- *Improve efficiency and security.*
- *A switch is more intelligent than a Hub.*

## *Packet Switching*



- *Packet switching is the primary basic for data communications.*
- *Packet switching has an **header** to direct the packet to its destination.*
- *Packet switching has also a **payload** used by OS or applications.*
- *Decrease **latency** that is the time it takes to cross a network.*

## *ATM Switch*

- *ATM = Asynchronous Transfer Mode*
- *High speed switch (50 Mbps - 2.4 Gbps)*

## *Ethernet Hub*

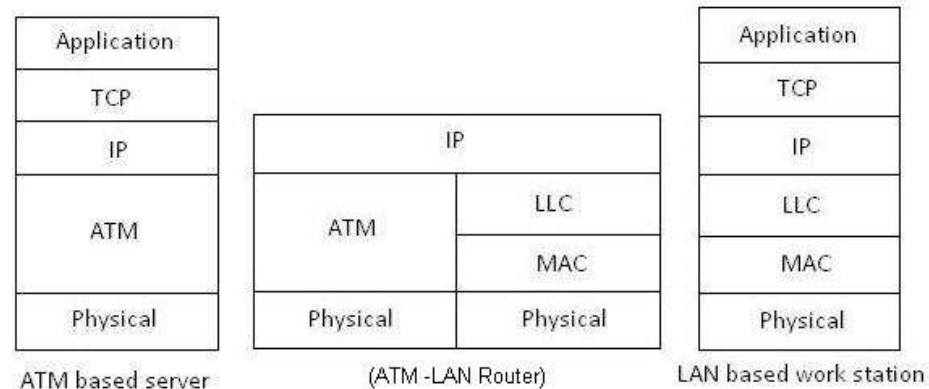


- *Retransmits packets to all out ports.*
- *Unable to distinguish different clients/devices.*
- *Detect and correct possible collisions (two demands at the same time).*

## *Network Bridge*

- *Connect multiple network.*
- *Works at layer 2 = data link layer*
- *Use Bridge table or forwarding database*

## Router



[www.rfwireless-world.com](http://www.rfwireless-world.com)

- *Device used to link two or more networks.*
- *Operates at OSI layer 3.*