

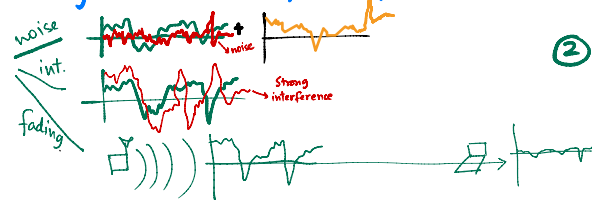
Transport
Layer /

■ Principles

- Goal #1 : Correctness
 - ① All pkts should be delivered (if not, inform the appⁿ about the failure).
 - ② No duplicates to be delivered.
 - ③ In-order delivery
- Goal #2 : Performance
 - ④ Low latency / high throughput
 - ⑤ Respect memory constraints of end points.

■ Sources of error

① Bit errors

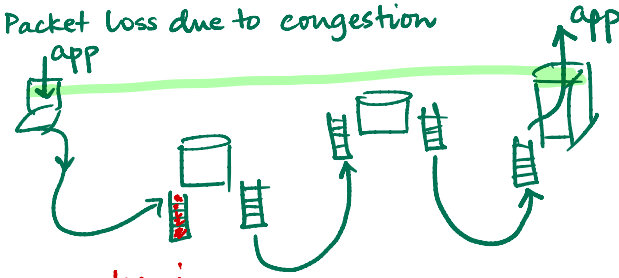


■ Why challenging ?

- Reliability over unreliable channels
- distributed consensus
- No cross layer information
 - Case study : Bottleneck b/w estimation
 - Bottleneck vs. available b/w.

■ State machines

② Packet loss due to congestion



no place in the queue (memory) to store the pkt, hence the packet is dropped.

