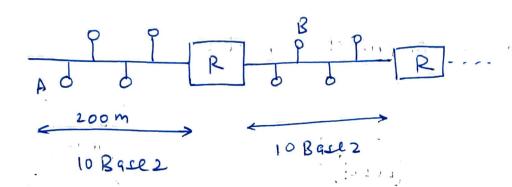
Lec 1.6 : Repeaters in Computer Networks

Hardware (used in physical layer)



Repeater just strengthens the attenuated signal

- → Repeater is not similar to Amplifier.
 - Repeater inveases signal to original strength Amplifier can invease it manifold.
- → Repeater → 2 port device
 - Forwarding
 - (Repeater sends the signal of A to
 - -> No filtering.

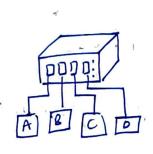
A but still repeated will forward the signal.

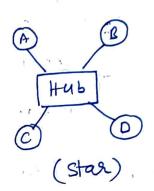
-> collision domain -> max. rumber of collisions both sides.

Lec 1.7 Hub (Physical Layer)

La Purely hardware, no software works

Hub - ii) multiport Repeater





(ii) Forwarding -> Yes.

Hub will forward data send by let's say A to D.

(iii) Filtering - No

Prrespective of whether it was sent to them or not.

Hub broadcasts, message to all.

(iv) collision domain

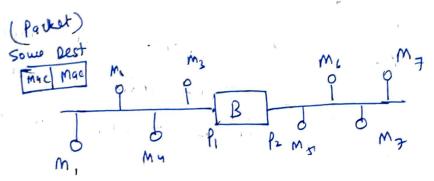
'n' collisions max (n > number of devices)

Lec 1.8 - Bridges (prysical and Data Link layer). (15)

- Bridges connect two different LAN's

- Forwarding (Yes)

अब Bridge के पास packet आसी।, भी



Bridge checks whether to forward or not from the help of MAC address

Types of Bridges

Static agnance or Ctransparent

	NAC'	Port	
1	WI	Pi	- This is problematic because
	M ₂	7,	if MAC address changes or letis
	M ₃	ρ,	in me in annexted to
	Ms	1	say pe is now connected to
1	M6	PL	different LAN, bridge will not be
	M ₄	P	modified.
	Ma	Ih	

Bridge will use this table for filtering & forwarding

-> Dynamic bridges -> They learn the table.

- Ruffal table is empty.

packet and then record ports
for all.

1,0	- 11	M
MAC	Port	$M_1 \longrightarrow M_6$
M,	P,	→ So, bridge will maintain
M6	P2	so pringe but once
		table initially but once it is fast
		brator en this case.

- Filtering - Yes

Collicion Domain

in the state of th

Lis collisions de not coccu in bridges because they use store and forward strategy.

-> Bridge has a beyfer memory that stores the data packet.

- Bridges Data Unit Protocal

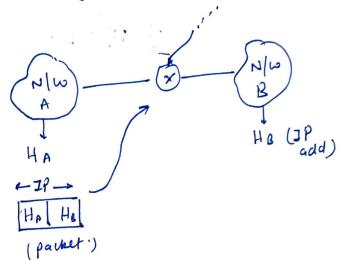
Le Packets do not get caught in permanent loops because bridges maintain minimum spanning tree using Bridges Data Unit Protocol.

Lec 1.9 Routers (Physical, Data link, Network layer)

Thernet:

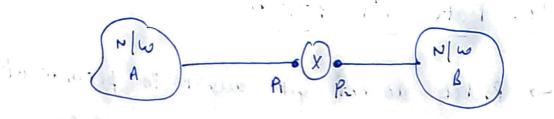
- Forwarding (Yes)

Router can forward,
because router
uses routing table



If router cannot decide when it works to send the packet, then it can broadcast the packet (flooding).

- Filtering Yes → using routing table
- Rowling
- collision No, router also uses store and forward method.



from many enterfaces already en N/W A:

sindlasty, pri will be an IP address that will interfaces that will the many interfaces of NIW B.

de de la companya de

Level to the second

the state of the s

Filter grade to fine a first of the grade 1.22

n sasi har man a na na na na sasa ita na na haine

· i x Your