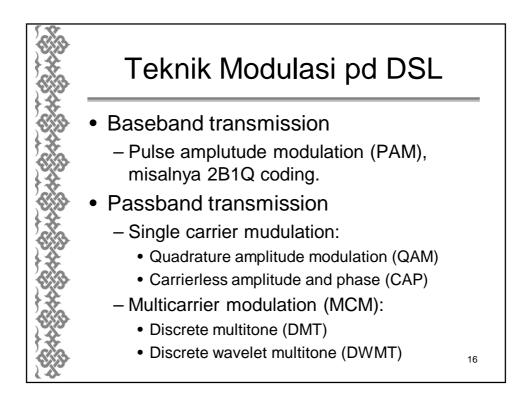
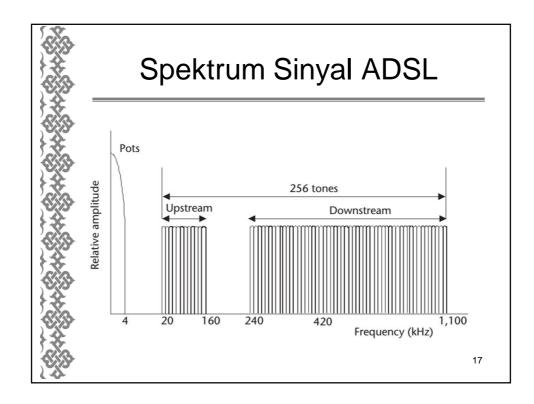
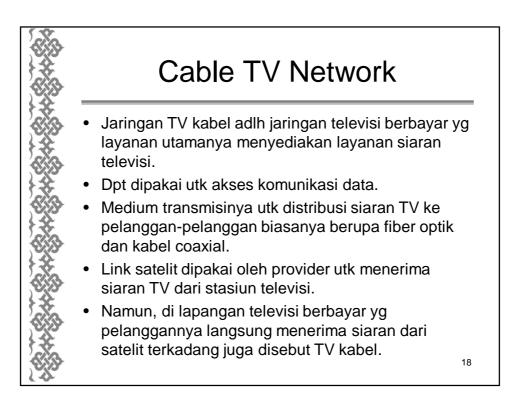


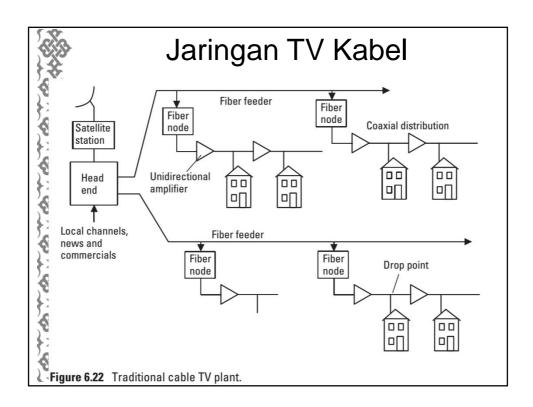
DSL (lanjutan) Table 6.1 DSL Technologies, Access Distances, and Service Rates							
Reach (km)	Downstream Data Rate	Upstream Data Rate	Analog Phone	Market			
8	144 Kbps	144 Kbps	No	Residential			
5	1.5 Mbps	640 Kbps	Yes	Residential			
4	2/1.5 Mbps	2/1.5 Mbps	No	SME*			
5–6	2.3 Mbps	2.3 Mbps	No	SME			
3	8 Mbps	1.5 Mbps	Yes	Residential SME			
0.1–2	52 Mbps (34 Mbps)	6 Mbps (34 Mbps)	Yes	Residential SME			
	Reach (km) 8 5 4 5–6 3	TableSt. Technologies, Access DisReach (km)Downstream Data Rate8144 Kbps51.5 Mbps42/1.5 Mbps5–62.3 Mbps38 Mbps0.1–252 Mbps	Table 6.1SL Technologies, Access Distances, and SReach (km)Downstream Data RateUpstream Data Rate8144 Kbps144 Kbps51.5 Mbps640 Kbps42/1.5 Mbps2/1.5 Mbps5–62.3 Mbps2.3 Mbps38 Mbps1.5 Mbps0.1–252 Mbps6 Mbps	Table 6.1SL Technologies, Access Distances, and Service RateReach (km)Downstream Data RateUpstream Data RateAnalog Phone8144 Kbps144 KbpsNo51.5 Mbps640 KbpsYes42/1.5 Mbps2/1.5 MbpsNo562.3 Mbps2.3 MbpsNo38 Mbps1.5 MbpsYes			

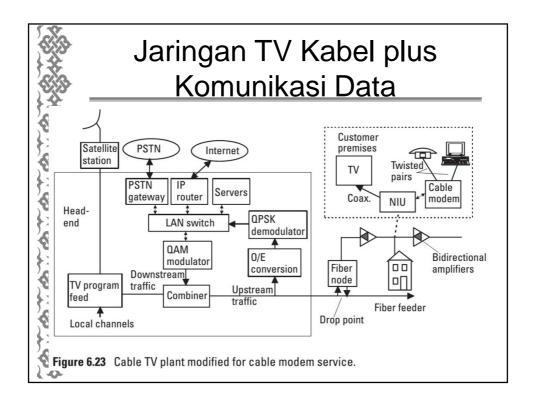
DSL (lanjutan)									
Technology	Transmission	No. of Pairs	Maximum Upstream	Bandwidth Downstream					
SDSL – Symmetric DSL	Symmetric	1 to 3	2 Mbps	2 Mbps	1st Generation Broadband				
HDSL – High Speed DSL	Symmetric	1	2 Mbps	2 Mbps					
ADSL – Asymmetric DSL	Asymmetric	1	640 kbps	8 Mbps					
ADSL 2 – Asymmetric DSL	Asymmetric	1	640 kbps	12 Mbps	2nd Generation Broadband				
**ADSL 2+ – Asymmetric DSL	Asymmetric	1	1.2 Mbps	25 Mbps					
VDSL -	Symmetric	1	52 Mbps	52 Mbps					
Very High Speed DSL	Asymmetric	1	16Mbps	52 Mbps					
VIDCLO	Symmetric	1	100 Mbps	100 Mbps					
VDSL2	Asymmetric	1	16 Mbps	100 Mbps					
JUNE DE LE D					15				

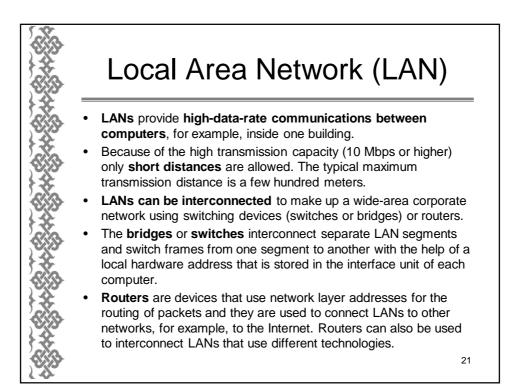


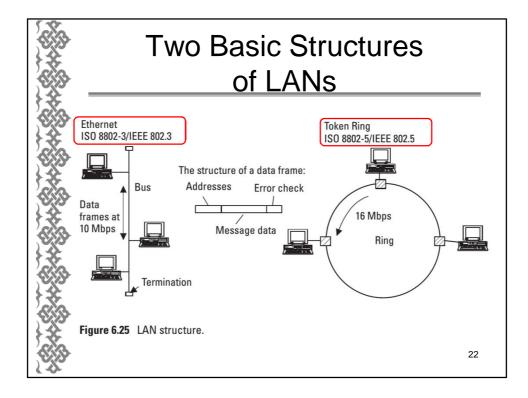


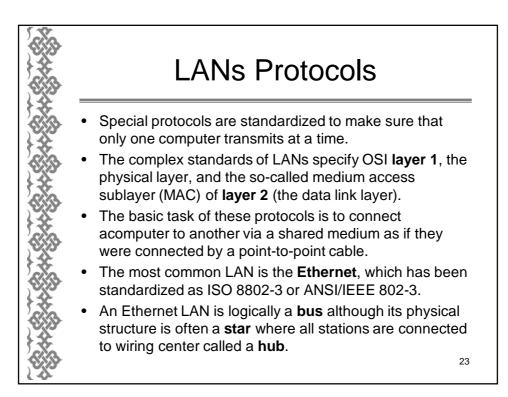


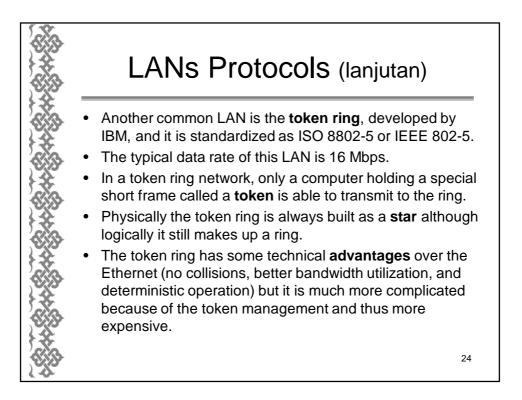


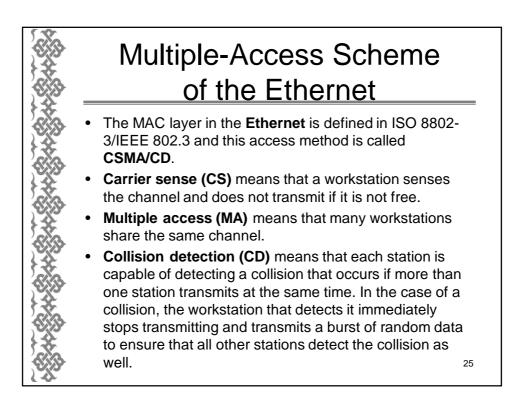


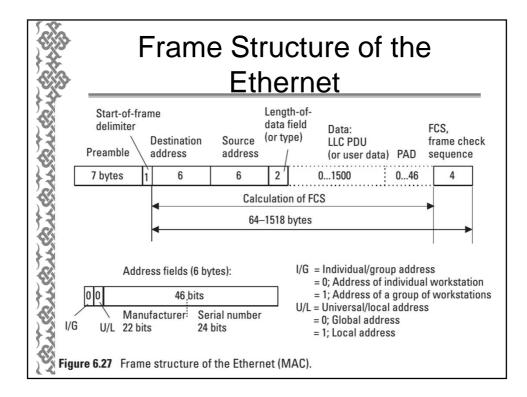




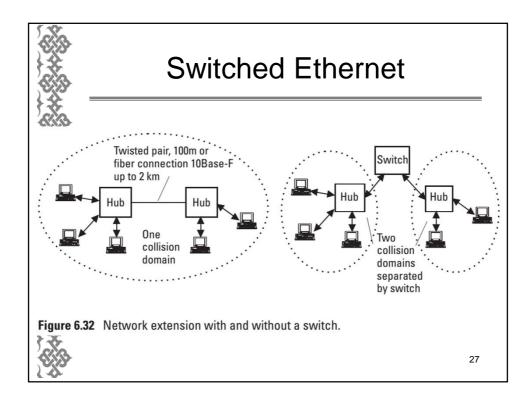


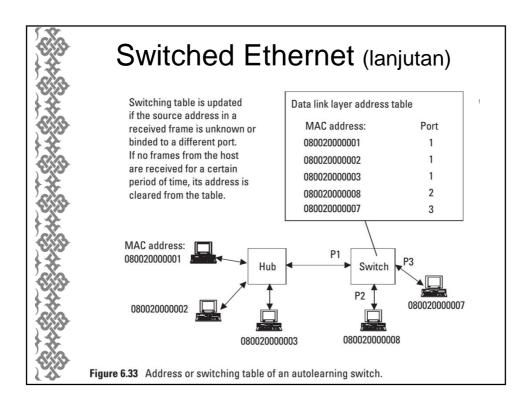






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_	visted Pair Cables for Ethernet Table 6.2 Preferential Order of Ethernet Technologies on Twisted Pair								
Technology	Mode	Throughput/ Connection	Media						
1000BaseTX	Full duplex	2×1 Gbps	4p UTP 5						
1000BaseTX	Half duplex	1 Gbps	4p UTP 5						
100BaseTX	Full duplex	2 × 100 Mbps	2p UTP 5/STP						
100BaseT2	Half duplex	100 Mbps	2p UTP 3/4/5						
100BaseT4	Half duplex	100 Mbps	4p UTP 3/4/5						
100BaseTX	Half duplex	100 Mbps	2p UTP 5/STP						
10BaseT	Full duplex	2×10 Mbps	2p UTP 3/4/5						
10BaseT	Half duplex	10 Mbps	2p UTP 3/4/5	29					

