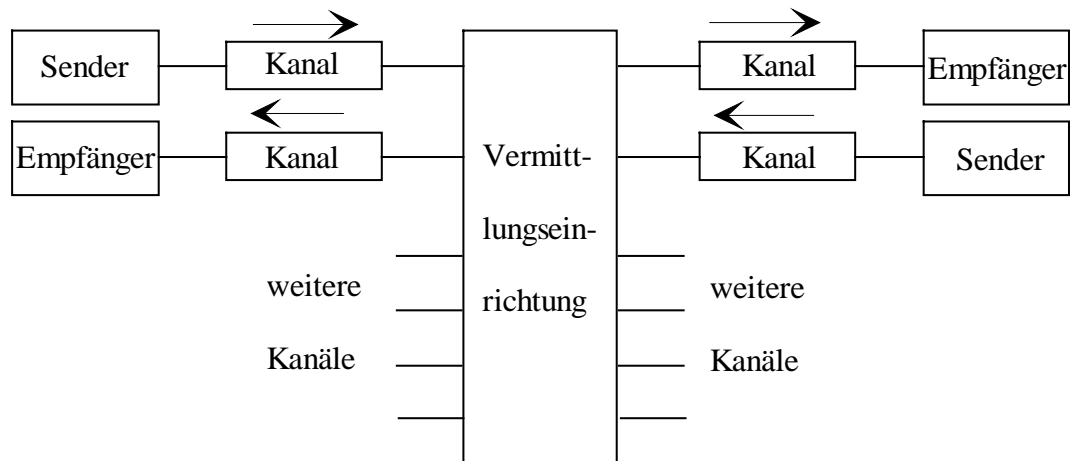
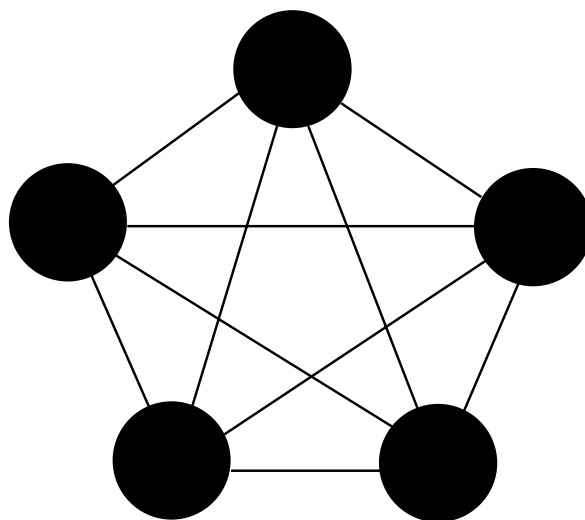


Grundlagen der Nachrichtentechnik

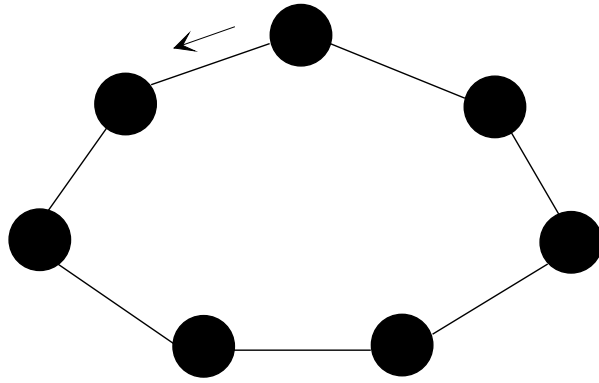
Teil 2 „Informationsnetze“



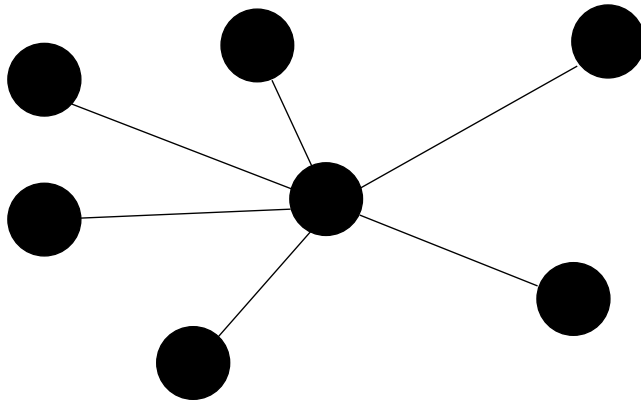
Folie 28 Struktur eines Netzes mit Vermittlung



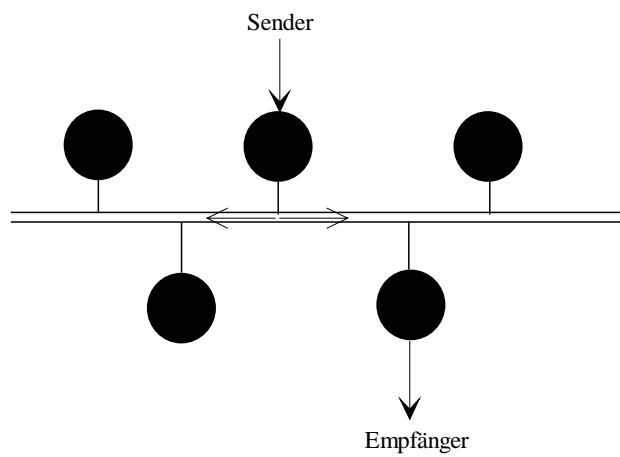
Folie 28 Vollständiger Graph



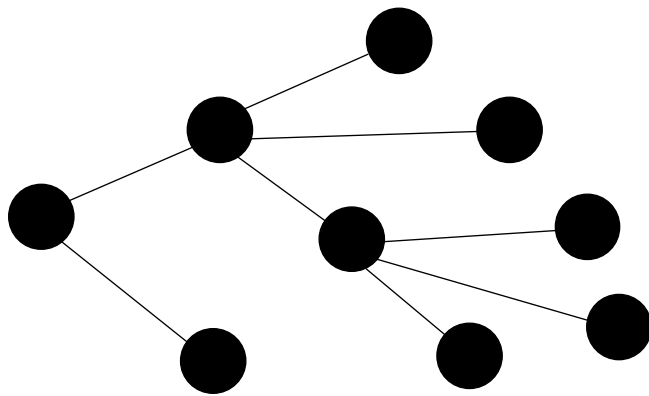
Folie 29 Ring



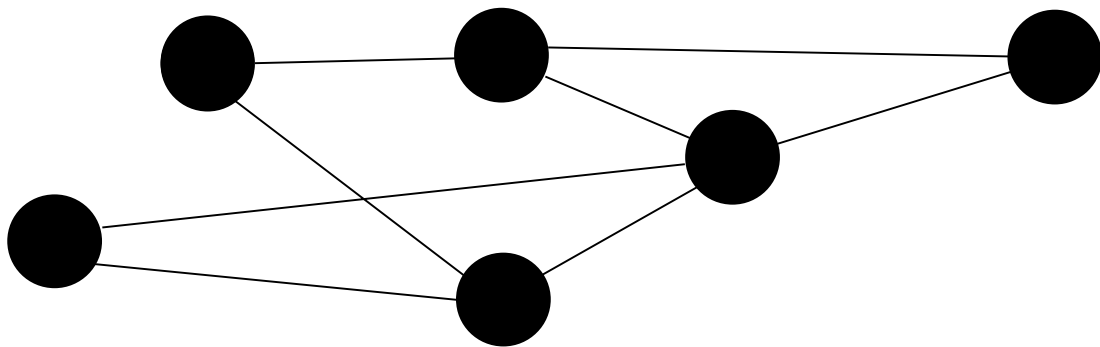
Folie 30 Stern



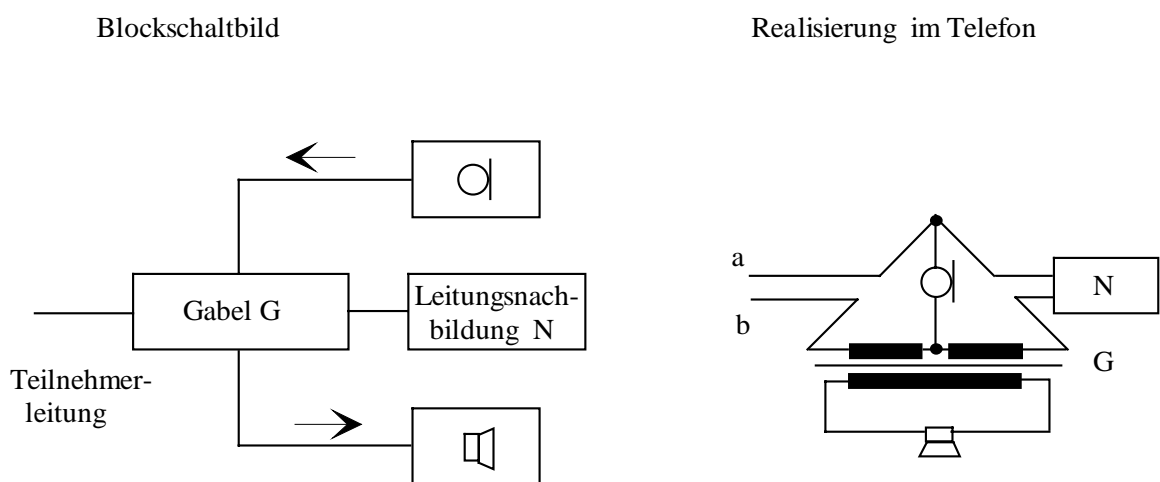
Folie 31 Bus



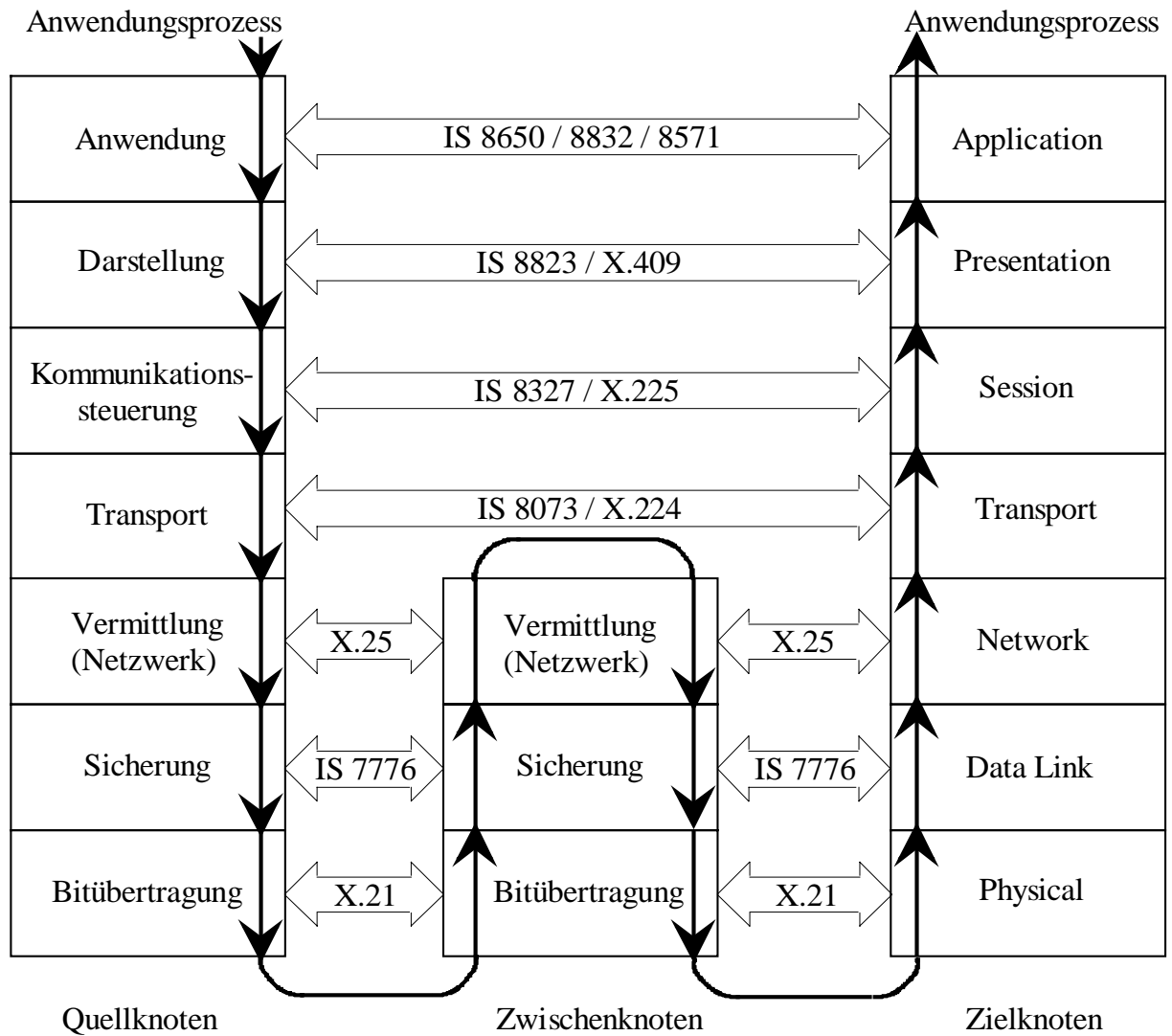
Folie 32 Baum



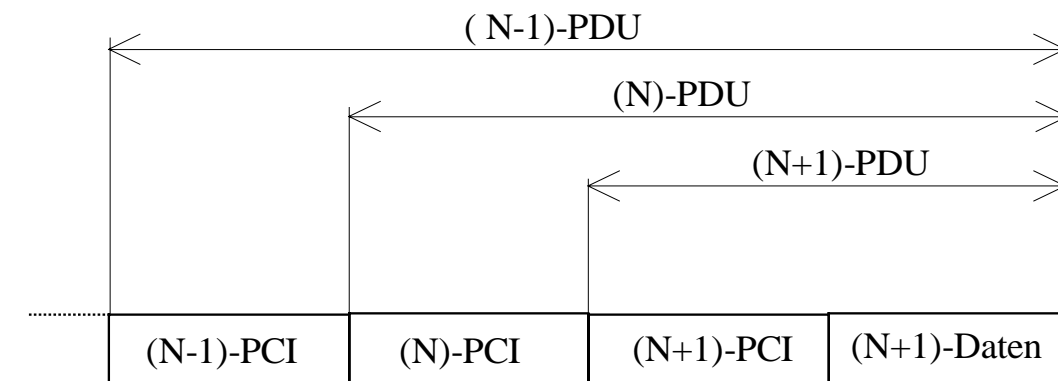
Folie 33 Vermaschtes Netz



Folie 34 Analoge Gabelschaltung



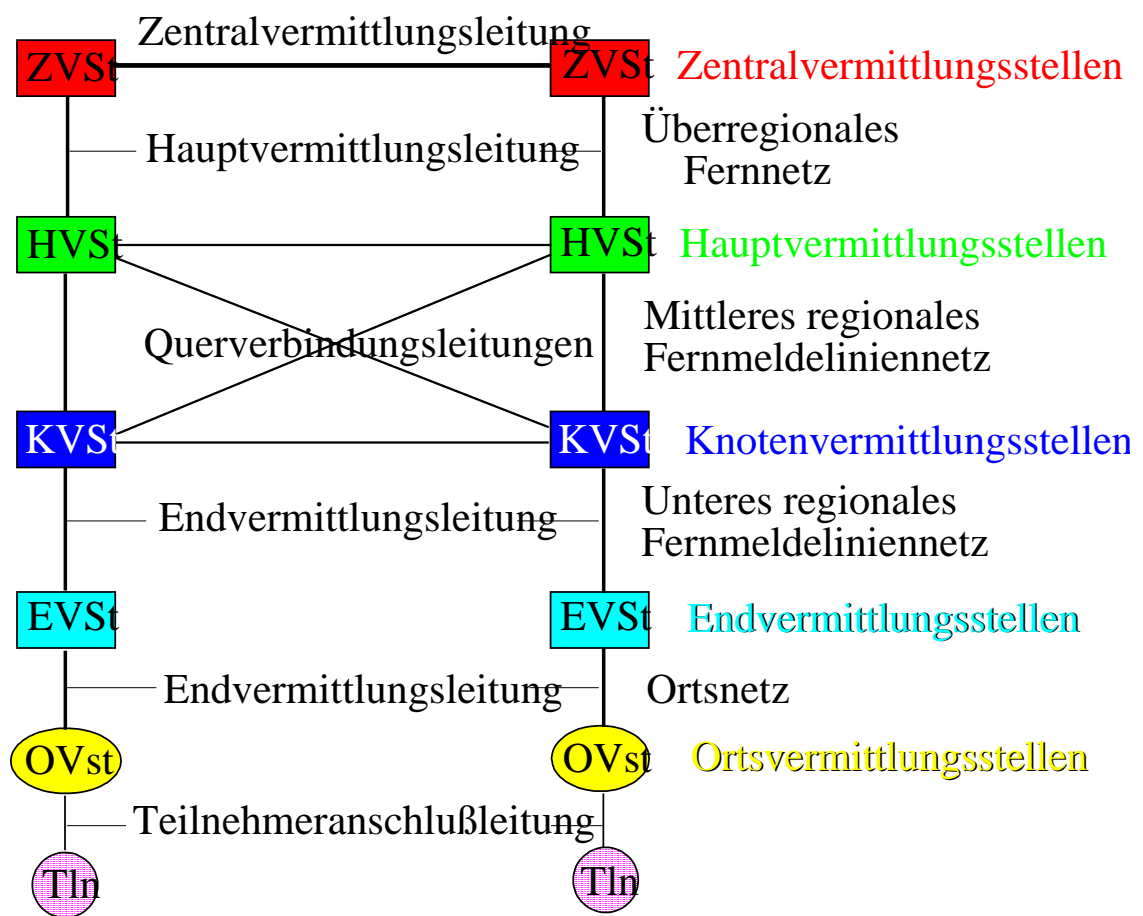
Folie 35 OSI – Modell

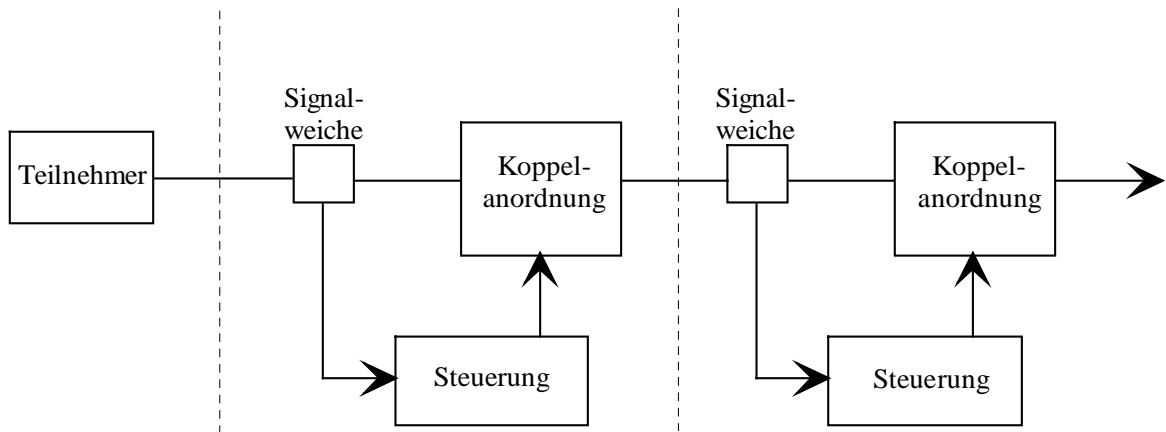


PDU - Protocol Data Unit ; Protokolldatenelemente
 PCI - Protocol Control Information ; Kontrollinformation

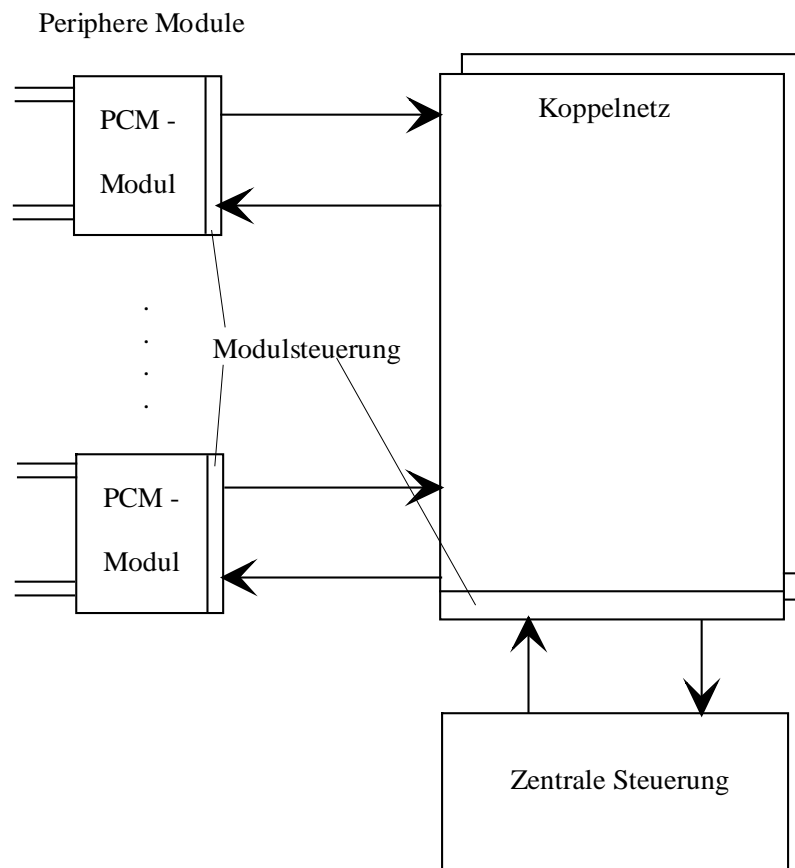
Folie 36 Protokolldateneinheiten

Struktur des Fernsprechnetzes

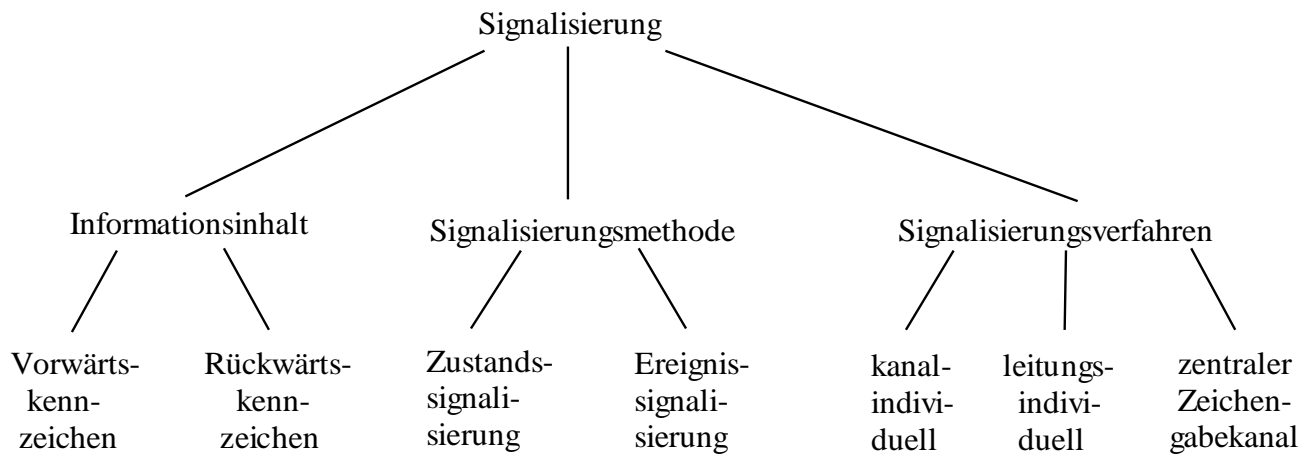




Folie 38 direkt gesteuertes Vermittlungssystem



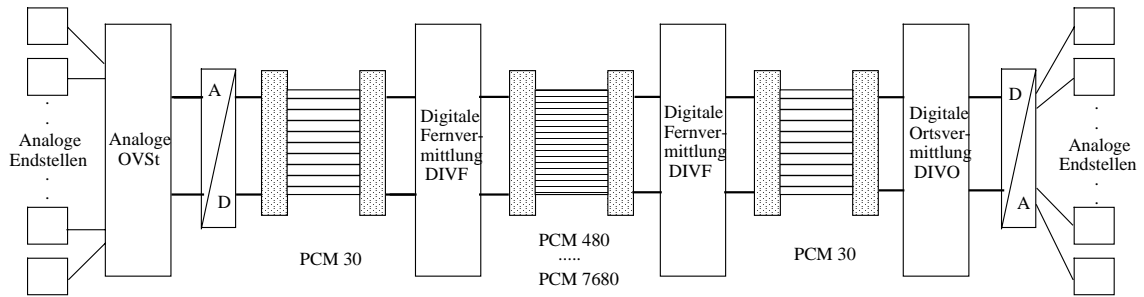
Folie 39 indirekt gesteuertes Vermittlungssystem



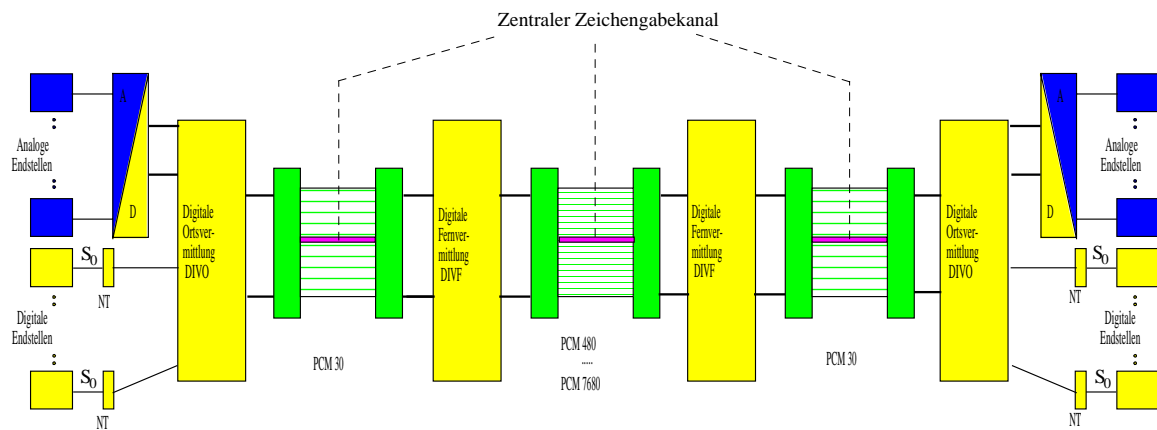
Folie 40

Ebene	Bezeichnung	Anzahl Nutzkanäle	Bitrate (Mbps)	Kabel	Regeneratorabstand (km)
Untere Regionalebene	PCM 30	30	2	symmetrisch	ca. 2
Mittlere Regionalebene	PCM 120	120	8	symmetrisch	ca. 6,5
	PCM 480	480	34	Koax 1,2/4,4 LWL	ca. 4
Überregionale Fernebene	PCM 1920	1920	140	Koax 2,6/9,5 LWL	ca. 4,5
	PCM 7680	7680	565		ca. 35

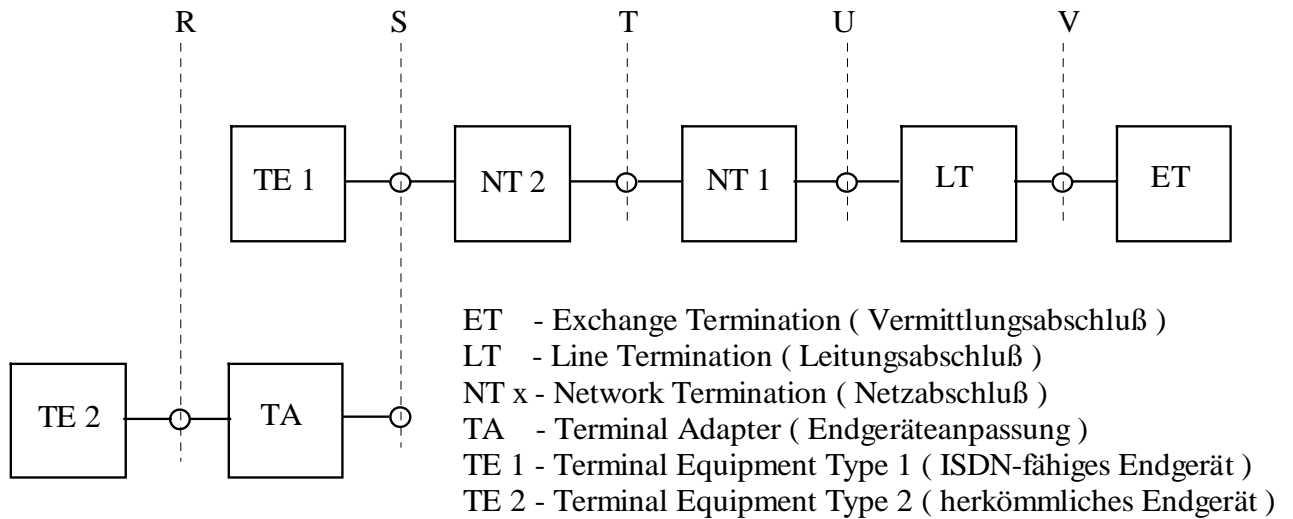
Folie 41 Multiplexebenen



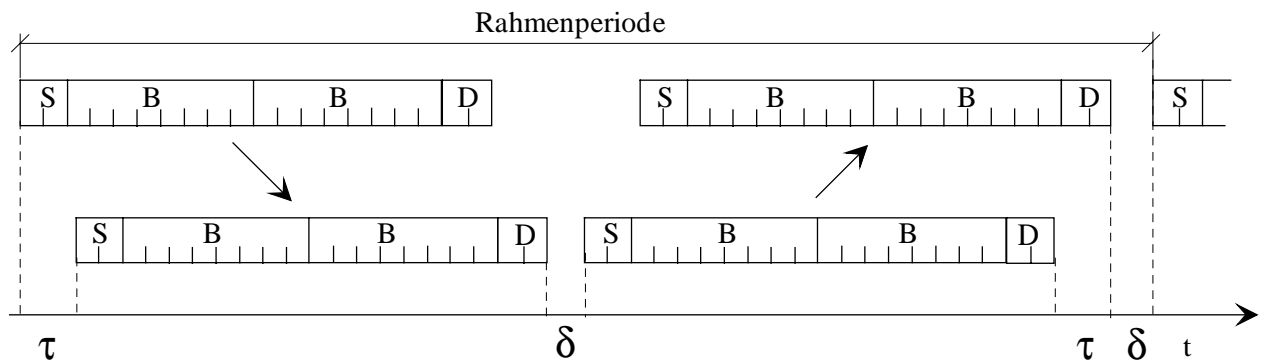
Folie 42 Digitales Fernnetz



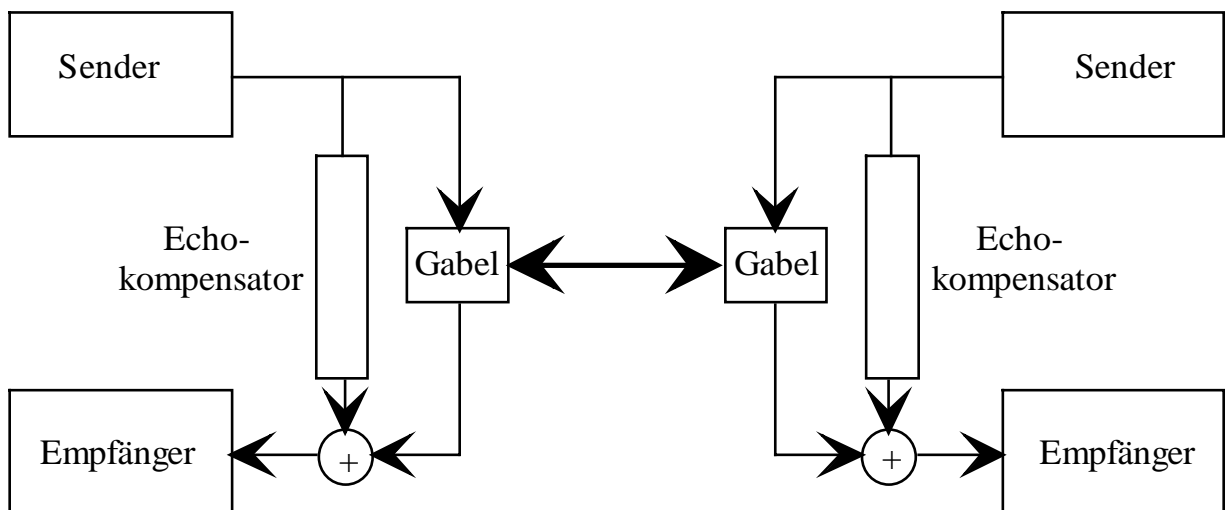
Folie 43 ISDN – Netz mit teilweise analogen Endstellen



Folie 44 ISDN - Basisanschluss



Folie 45 Ping - Pong - Verfahren



Folie 46 Echokompensationsverfahren