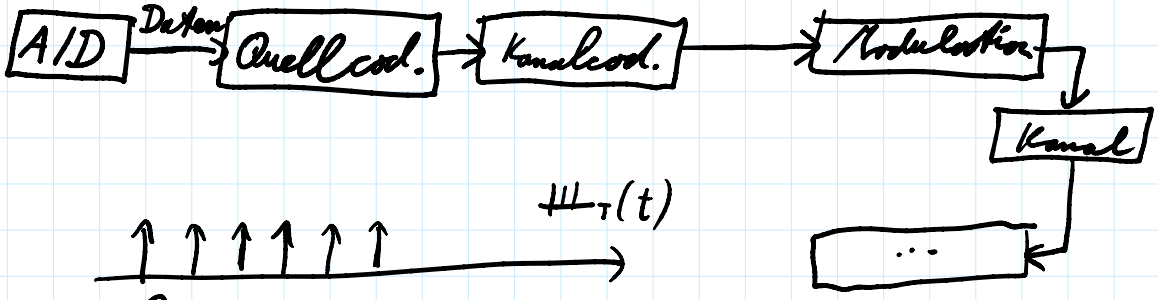
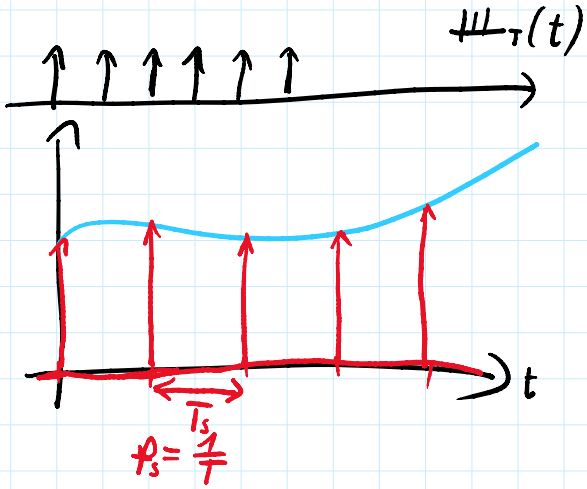
Einheit 20

Mittwoch, 10. Dezember 2025 19:49

$1920 \times 1080 \times 3 \tilde{=} 2\,MB$



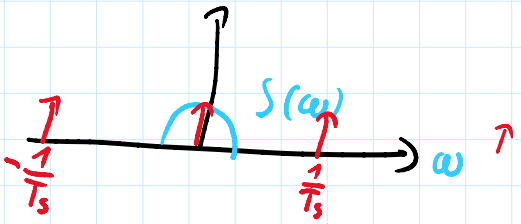


$s(t) \cdot \delta(t) = s(0) \cdot \delta(t)$

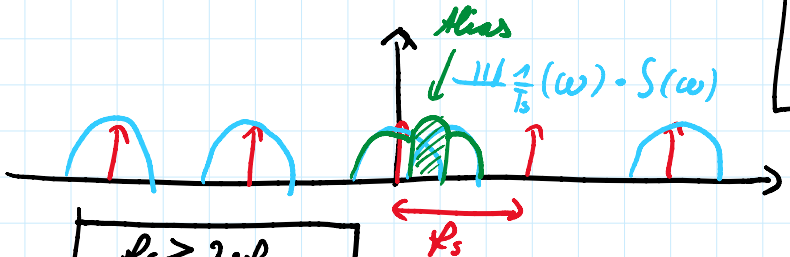
$+ s(t) \cdot \delta(t - T_s) = s(T_s) \cdot \delta(t - T_s)$

$\text{Ш}_{T_s}(t) \cdot s(t)$

$\text{Ш}_{\frac{1}{T_s}}(\omega) * S(\omega)$



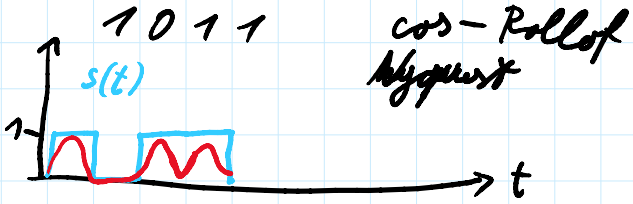
FIR
IIR



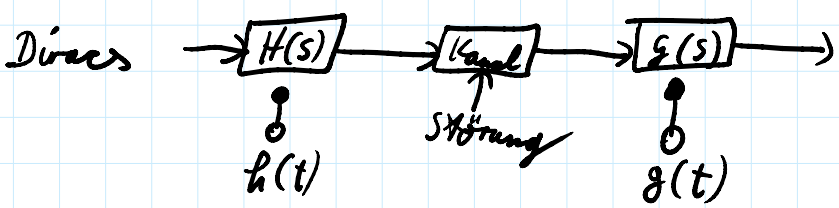
$f_s \geq 2 \cdot f_{max}$
Abtasttheorem

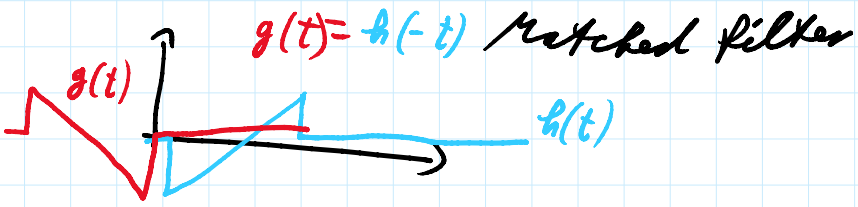
Multiplexing

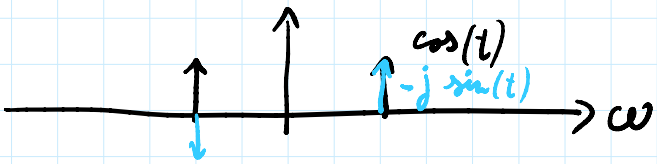
- Zeit
- Frequenz
(- Code)

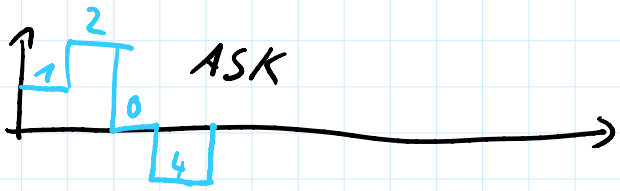


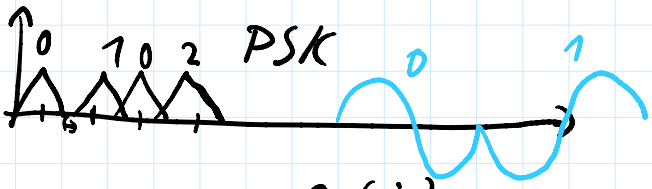
cos-Rolloff
Nyquist

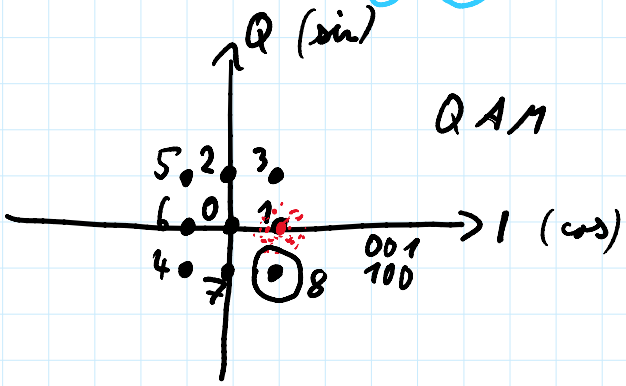


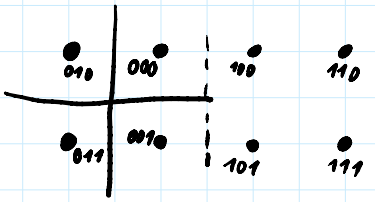

g(t)= h(-t) Matched Filter
g(t)
h(t)


cos(t)
-j sin(t)
ω


ASK
2
1
0
4


0
1
0
2
PSK
0
1


Q (sin)
QAM
5
2
3
6
0
1
I (cos)
4
7
8
001
100


010
000
110
011
001
101
111