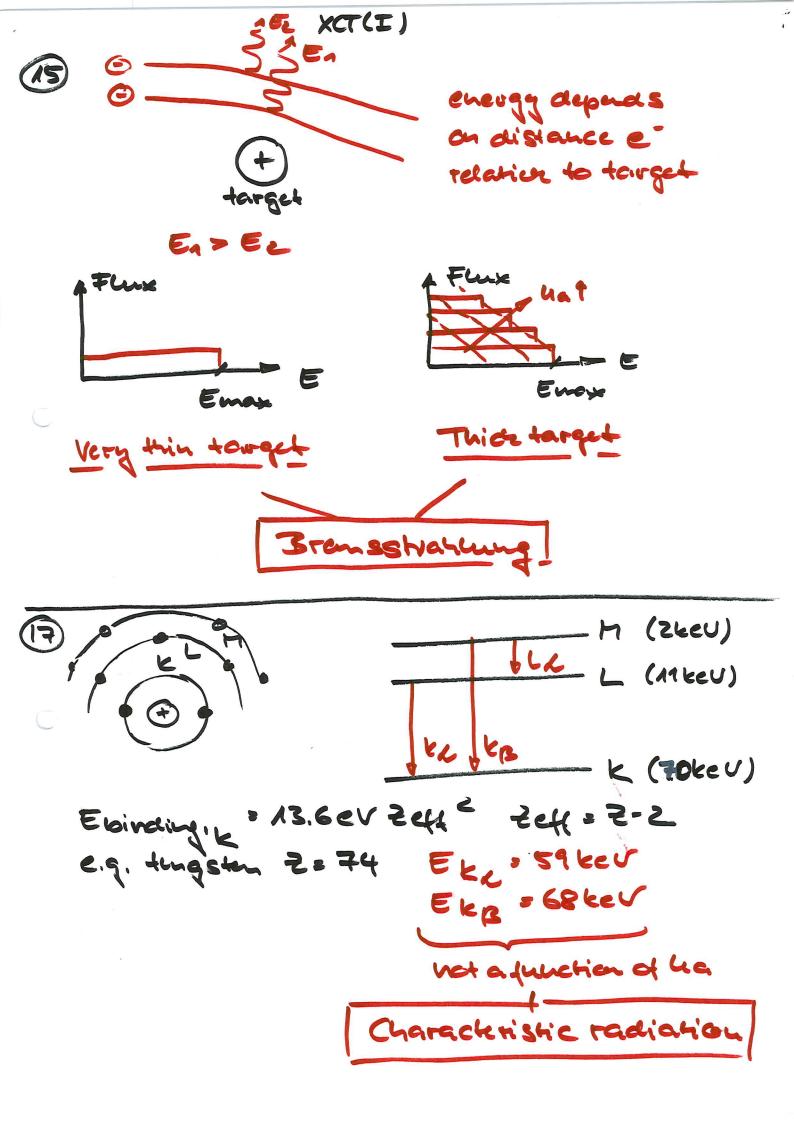
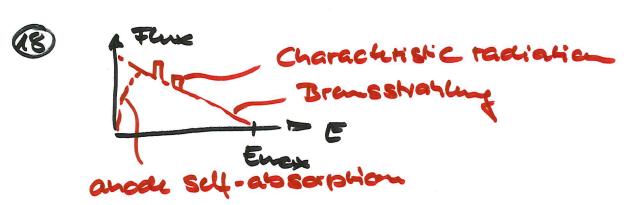


Emax = 4. 5 min = 1.6.10-147



XCT(I)



(2) Ua = 100 kV

la = 100 mA

T = 200 k

1% X-ray

99% heat

Theat = 1.5 mm

Diffusion

Padiation

Vest radiation

Ephoton • Ex + 2 meve tinchic energy of ephoto

Ep + Ee = Epe + Epi

Ap - Ap1 = Mec (1-cosy)

Ap-Ap1 = Mec (1-cosy)

Are the primary photon

Ap-Ap1 = Mec (1-cosy)

Apology

Apol

Mog (µ')

Log (µ')

Log (photo effect)

Log (E)

M' = G. NA - Avogadro number

A - alomic weight

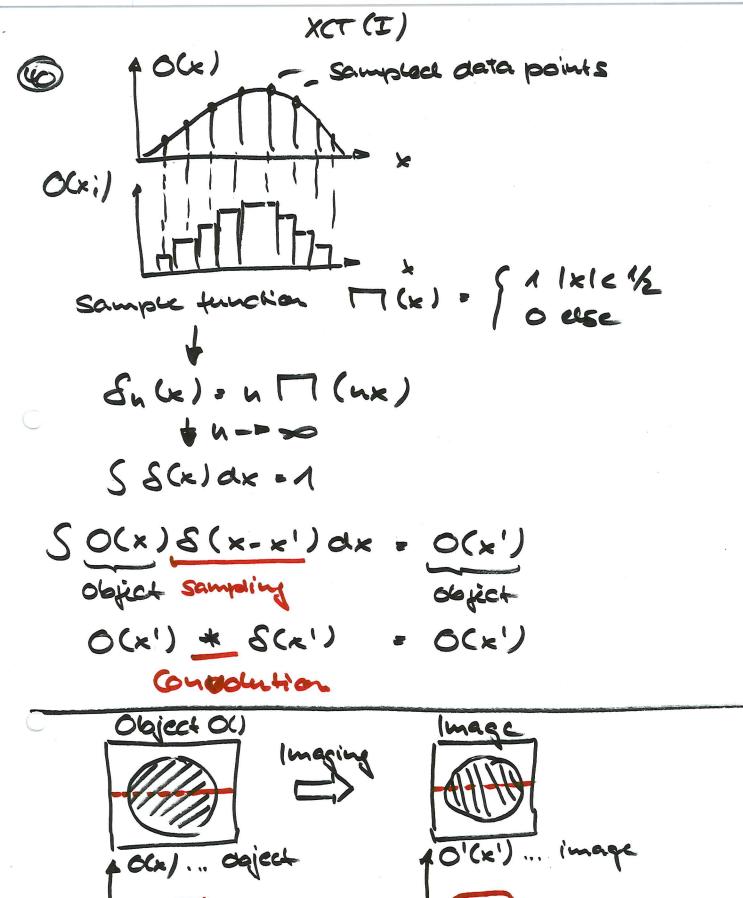
effective ana

G. M. - A'N Ex

incident photon | transmitted photon
intensity financity
tissue

I(x+ax) - I(x) - - \(\) Idx

\[
\frac{dI}{I} = -\(\) - \(\) \[
\frac{dV}{I} = -\(\) \[
\frac{L}{I} = -\(



Line is imaged as burred line

LSCK)

L(x!)

SO(x) S(x- x) dx => SO(x) L(x'-x) dx line - spread fuction (LSF) Let's decompose an object into it's harmonic 0(x). Sack) sin (kx)+ b(k) cos (kx) dx Zk(x) =a(k) sin(kx) 〇(火) 二つ 〇(火) ~ 引火(火)二つ 子(火) L= a(k) SS(x-X) sin(kX) dX => a(k) SL(x-X) sin(kX) dX x"=x'-X a(e) 5L(x") sin (ex- ex') dx" Sin (kx'-kx") = sin (kx') @s(kx") -cos(kx') sin(kx") 7 k(x') = a(k) [L(x") [sin(kx) cos(kx") - cos(kx") sin(kx")] dx" an(k) 76 (41) = a(k) [a,(k) sin(kx') -a2(k)@s(kx')] 76(x1) = a(6)(7(6)) sin(6x1-9) Modulation Transfer Function le [1/m]

XCT(I)