

While subjecting a material to X-Ray To, Radiography the rays tend to pass
through some material and depending
on the different MASS Attenuation
co-efficient of the material. Some of the
light (Rays) closit make it through
the matter, resulting in shadows. The specialized film is developed to capture the shaclow produced in this case. Photography on the other hand is reflective Photography, captures photons while radiography captures abscense of photons. Alule performing radiography, due to the differential attenuation of the material or in our case human body absorbs soone of the radiation and also reflects back some of the radiation causing lon of elections at the capturing screen

At a specific X-Ray potential of 80kV, two exposures are taken and the radiation dose is measured Then we place the aluminium sheet in the bearis way and then measure the radiation dose. We start with the minimum amount or thickness of the aluminium sheets and slowly increasing the thickness as the hesults are required. In this case, at some point me are going to lesser dose than required. At this point neive sure that the HVL point ties between the last placed aliminium sheet and the recently placed aluminium sheet. Then we can go by inserting / Removing the aluminium sheets as required for achieving the desired Half Value Layer

firstly, we would measure the mR know the de absorber thickness respectively

4.	At 60kVp, N, & (60kVp)2 x 120mA x0.1s
S. Carlo	The second secon
	At 100KVp, N2X (100KVp)2 x 50mA x 0.1s.
11000	Ladrantes and the database of the second of
	$N_1 = 120,000$. $N_2 = ?$
	(1)
S	$\frac{N_1}{N_2} = \frac{(60)^2 \times 120 \times 0.1}{(60)^2 \times 50 \times 0.1}$
	No (100) 50 p.1
7	Market and the property of the same of the same
	$\frac{N_1}{N_2} = \frac{3600 \times 12}{5000} = \frac{36 \times 12}{500} = \frac{36 \times 12}{500}$
K	72
	N2=1.157 - 1
	0.864.
Complete Complete	1. N2 = 1.15 7 x N1
no bou	$\frac{1 \cdot M_2 = 1 \cdot 13 + \times M_1}{2 \cdot 10 \cdot 10^{-10}}$
	$N_2 = 1.157 \times 120,000$
Ja als	$N_2 = 1.157 \times 120,000$ $N_2 = 138,888.88$
	120 000 00
nababan	N2 = 10138, 888.88 0000
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$A_1 = \phi_1 = 2.4 \times 10^8 \text{ photons/m}^2$
$d_1 = 0.3m$ $d_2 = 1.0m$
$d_2 = 1.0 m$
02= 8
$\Phi_2 = \frac{d_1^2}{\sqrt{2}} \times \Phi_1$
72 1
$= \frac{0.3^2}{13.5} \times \frac{2.4 \times 10^8}{}$
$\frac{1}{1^2}$
$= 0.09 \times 2.4 \times 10^8$
Φ2 = 0.216 x 108 photons/m2
i. The fluence at A2 = Q.216 x108 photons/m2