

3. Difference between Radiography and Photography Radiography is capturing the shadow produced while subjecting a material to X-Rey 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) clorit make it through
the matter, resulting in shadowes 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. Thile performing sadiography, due to the differential attenuation of the material of in one case human body absorbs soone of the ractiation 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 nee place the aluminium sheet in the bearris way and then measure the judication dose. We start with the minimum amount or thickness of the aluminium sheets and slowly increasing the thickness as the results are required. In this case, at some point ne vace going to lesser dose Than required. At this point nee've sure that the HVL point lies 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

If an X-Ray machine generates 32 kVp. and we have a slab of Lucite and a ruler and a meter than measures n-say enposure in terms of rok. Firstly, we would measure the mR with and without placing the slab of Lutice. Le con know the clinity of Lutice by some means. Then we can measure the thickness of the slab with the given rules So, ree now have realnes N, No, and 21 that denote No of teansnitted photons, No of incident photons and absorber thickness respectively So, using the formula We can find the Linear Attenuation Co-efficient

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