

Radiation Physics Laboratory – Complementary Exercise Set

Exercise 1

a)

$$10 \text{ keV} = 0.01 \text{ MeV}$$

$$\rho_{H_2O} = 1 \text{ g/cm}^3$$

$$\frac{\mu_{H_2O}}{\rho_{H_2O}} = \mu_{H_2O} = 5.33 \text{ cm}^{-1}$$

Due to the high quantity of water in soft tissue, I assumed that it's totally constituted by this molecule.

$$\mu_{H_2O} \approx \mu_{\text{soft tissue}}$$

$$I = I_0 \times e^{-\mu x} \text{ (Beer-Lambert Law)}$$

$$\frac{I}{I_0} = e^{-5.33 \times 5} = 2.67 \times 10^{-12}$$

On the other side, the fraction of energy lost will be:

$$1 - \frac{I}{I_0} = 1 - 2.67 \times 10^{-12} \approx 1 = 100 \%$$

So, we conclude that the X-rays (10 keV) will be almost totally absorbed when going through 5 cm of soft tissue.

Photon Energy (MeV)	μ/ρ
0.01	5.33
0.10	0.171
1.0	0.0708
10.0	0.0222
100.0	0.0173

Radiation Physics Laboratory Manual

S Marginson



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