

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

Rosina Ehmann



Radiation Physics Laboratory Manual:

Reviewing **Radiation Physics Laboratory Manual**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Radiation Physics Laboratory Manual**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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