
Principles of Radiation Physics

Questions and Answers Latest Version

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How does the concept of "quality of the beam" affect diagnostic imaging?

✓✓ A higher quality beam, characterized by higher energy x-rays, improves the ability to penetrate tissues and produces clearer images while reducing patient dose.

What happens when an x-ray beam is "attenuated" by tissue?

✓✓ Attenuation occurs when the x-ray beam loses energy as it passes through tissue, either through absorption or scattering, which reduces the intensity of the beam.

Why is tungsten often used as the target material in x-ray tubes?

✓✓ Tungsten is used because of its high atomic number and high melting point, which allows it to efficiently produce x-rays while withstanding the heat generated during the process.

How do x-ray machines limit unnecessary radiation exposure?

✓✓ X-ray machines use collimation, filtration, and shielding to limit the size and energy of the x-ray beam, reducing unnecessary radiation exposure to both patients and healthcare workers.

Radiation Physics Questions And Answers

Patrick Vollmar



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