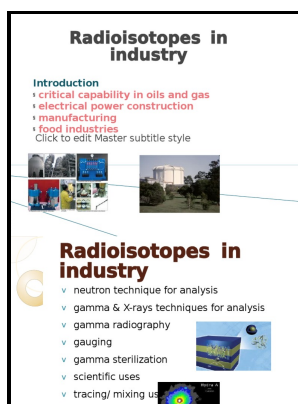


Uses of radioisotopes

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Uses of Radioisotopes

Often times PET scanners are used in collaboration with CAT scanners to create a composite image that shows both the function and form of the body. The combination can occur naturally, as in radium- 226, or by artificially altering the atoms. Many foods are preserved by radiation that kills microorganisms that cause the foods to spoil.

Uses of radio isotopes

How are atoms in a compound held together? This reduces the overall toxicity dose.

11.5: Uses of Radioisotopes

One excellent example of this is the use of radioactive carbon-14 to determine the steps involved in the photosynthesis in plants. Most of these radioisotopes have relatively short half-lives; some are short enough that the radioisotope must be made on-site at medical facilities.

11.5: Uses of Radioisotopes

Doctors can use the intensity of gamma ray emission to find tissues that metabolize the sugar faster than other tissues; fast-metabolizing tissue is one sign of a malignant i.

11.4: Uses of Radioactive Isotopes

Tracers can also be used to follow the steps of a complex chemical reaction. Initial symptoms include nausea, vomiting, headache and diarrhoea.

Uses of Radioisotopes

The following radioactive elements are found naturally in the environment. In one form of pest control, flies are controlled by sterilizing male flies with γ radiation so that females breeding with them do not produce offspring. A cancer patient may receive external beam radiation therapy delivered by a machine outside the body, or internal radiation therapy brachytherapy from a radioactive substance that has been introduced into the

body.

What are some examples of radioactive isotopes?

Lastly, dry mouth and tooth decay are prevalent during radiation treatments. What is another word for isotope? The radioactive compound travels throughout the body, and the patient is then pushed slowly through a ring of sensors that detect the gamma radiation given off by the annihilation of positrons and electrons. Sometimes, both of these methods are used for a patient.

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