

nuclear medicine instrumentation book pdf

A nuclear reactor, formerly known as an atomic pile, is a device used to initiate and control a self-sustained nuclear chain reaction. Nuclear reactors are used at nuclear power plants for electricity generation and in propulsion of ships. Heat from nuclear fission is passed to a working fluid (water or gas), which in turn runs through steam turbines. ...

Nuclear reactor - Wikipedia

Nuclear propulsion includes a wide variety of propulsion methods that fulfill the promise of the Atomic Age by using some form of nuclear reaction as their primary power source. The idea of using nuclear material for propulsion dates back to the beginning of the 20th century. In 1903 it was hypothesised that radioactive material, radium, might be a suitable fuel for engines to propel cars ...

Nuclear propulsion - Wikipedia

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This note introduces the physics, instrumentation, and signal processing methods used in X-ray (projection radiography), X-ray computed tomography, nuclear medicine (SPECT/PET), optical imaging, ultrasound imaging, and magnetic resonance imaging.

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We covered the interaction of gamma-rays with matter from a descriptive viewpoint in the previous chapter and we saw that the Compton and Photoelectric Effects were the major mechanisms. We will consider the subject again here but this time from an analytical perspective.

Basic Physics of Nuclear Medicine/Attenuation of Gamma

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