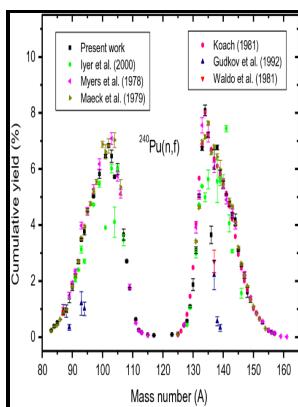


Half-life of some long-lived actinides - a compilation.

Commission of the European Communities - Long



Description: -

-half-life of some long-lived actinides - a compilation.

Eur 5194 half-life of some long-lived actinides - a compilation.

Notes: Prepared under the auspices of the Joint Nuclear Research Centre, Geel Establishment, Central Bureau for Nuclear Measurements.

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Tags: #A #fast #reactor #system #to #shorten #the #lifetime #of #long

Half

Stather, in , 1979 2. As long-term hazards, HLLW contains, in addition to residual uranium and plutonium, several long-lived α -emitting minor actinides such as neptunium, americium, and curium, and fission products such as 99Tc, 129I, 93Zr, and 135Cs.

Radioactivity : Minor Actinides

In this case, death occurs as a result of massive pulmonary oedema and pulmonary haemorrhage. The blanket configuration of the FDT is improved by analyzing various sample blanket design combinations with different radial thicknesses.

A fast reactor system to shorten the lifetime of long

Clearly, it is very difficult to imagine a man inhaling amounts of plutonium exceeding about 10 milligrams. VANINBROUKX, in Actinide Newsletter, by S. Transmutation has also been considered for Cs-135, but is almost certainly not worthwhile for the other LLFPs.

Radioactivity : Minor Actinides

Neutron captures are not frequent. By about 3 million years, Zr-93 decay energy will have declined below that of I-129. The new study led by Satoshi Chiba at Tokyo Tech shows that effective transmutation of LLFPs can be achieved in fast spectrum reactors without the need for isotope separation.

Long

Three have relatively high yields of about 6%, while the rest appear at much lower yields. The focus of this chapter is on the engineering concepts associated with the requirements of these activities.

Radiotoxicity

The first three have similar half-lives, between 200 thousand and 300 thousand years; the last four have longer half-lives, in the low millions of

years.

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