

nuclear fission and fusion pdf

In nuclear physics and nuclear chemistry, nuclear fission is either a nuclear reaction or a radioactive decay process in which the nucleus of an atom splits into smaller parts (lighter nuclei). The fission process often produces free neutrons and gamma photons, and releases a very large amount of energy even by the energetic standards of radioactive decay. ...

Nuclear fission - Wikipedia

A nuclear weapon is an explosive device that derives its destructive force from nuclear reactions, either fission (fission bomb) or from a combination of fission and fusion reactions (thermonuclear bomb). Both bomb types release large quantities of energy from relatively small amounts of matter. The first test of a fission ("atomic") bomb released an amount of energy approximately equal to ...

Nuclear weapon - Wikipedia

Nuclear fusion takes place when light atomic nuclei, having sufficient kinetic energy, collides with each other to combine, overcoming the electrostatic force repulsion, to form a heavier atomic nucleus releasing a tremendous amount of energy. For fusion reactions to take place, there is the need of having sufficient kinetic energy and confinement to achieve collisions at the required rate.

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