How many scatters with 1H and with 235U, on the average, would it take for 2 MeV neutrons to reach an average thermal energy of 0.025 eV?

Discuss the relative merits of water and graphite for use in a thermal reactor.

Plot the thermal fission factor for uranium as a function of its atom-% enrichment in 235U.

Consider a homogeneous mixture of fully enriched 235U and graphite. Plot *k∞* versus N235 */*N*c.* What is the fuel-to-moderator ratio that yields the maximum value of *k∞*?

Two detectors, placed symmetrically on either side of a fission source, record two fission fragments fl and f2 from a fission event. If the flight time for fl is 20% greater than that for f2, calculate the ratio of the masses of f1 and f2 . Which has the most energy?