Example multiple choice questions created from end of chapter questions. The quizzes on the text web site and CDrom are also good places to get practice questions.

Some are **concept questions**, some are **factual questions** and some are **calculation-type questions**.

1. Control rods in a fission reactor function by

a. cooling down the reactor fuel
b. preventing oxygen from reaching the fuel.
c. absorbing neutrons generated in the fission process.
d. absorbing the electrons emitted by the reaction.
e. preventing Uranium to decompose to Plutonium.

2. What quantity of energy would be produced as one atom of plutonium-238 undergoes alpha decay? The atomic mass of ^{238}Pu nucleus is 238.0495 amu (3.953×10^{-22}g), the atomic mass of uranium-234 nucleus is 234.0409 amu (3.886×10^{-22} g) and an alpha particle has a mass of 6.64465×10^{-24} g. The speed of light is 2.998×10^{8} m/sec.

a. 5.972×10^{-7} J
b. 4.975×10^{-12} J
c. 6.972×10^{-10} J
d. 2.594×10^{-8} J
e. none of the above

ANSWER 1:C
ANSWER 2: B