1. Some range calculations using J & C Table 6-3:
   
   a. Estimate the range of 1 MeV, 10 MeV, and 100 MeV electrons in water by numerical integration over the slowing down of the electron.
   
   b. Compare with the values in Table 6-3.
   
   c. What is the % error in your approximation?
   
   d. What is the % error incurred in the “rule of thumb” is used? Why?

2. Plot the relative dose distribution as a function of path length (as distinct from depth, i.e. straight-line path, no straggling) for 1 MeV, 10 MeV, and 20 MeV electrons.