

Rad Pro Calculator References

Basic equations for decay, half-life, specific activity, shielding, conversions, etc.
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Scanner and frisker MDA, MDC calculations from: Gollnick, Daniel A., PHD, November 2006. "Basic Radiation Protection Technology, 5th Edition", Pacific Radiation Corporation, <http://www.pacificrad.com/pages/publications.html>.

Beta fluence-rate equations from: Calculations deleted 9/22/2008. Beta exposure rates now based exclusively on handbook extrapolation tables.

The uranium enrichment and fuel loading formulas are empirically derived from US gaseous diffusion enrichment data. For other enrichment processes, the formulas would be somewhat different. The desktop version, available on the software download page on this site, includes fractions, ppm, etc. Formulas are provided through the research of Robert J. Tuttle.