

Corrections for Duderstadt and Hamilton “Nuclear Reactor Analysis”

Page 21 – Third line from the top should be x not dx

P. 27, Eq. 2-36 should read:
$$\sigma_0 = 4\pi\lambda_0^2 g \frac{\Gamma_n(E_0)}{\Gamma} = \frac{2.608 \times 10^6}{E_0} \frac{A+1}{A} \frac{g\Gamma_n(E_0)}{\Gamma}$$

P. 27, Eq. 2-37
$$\Gamma_n(E_c) = \Gamma_n(E_0) \sqrt{\frac{E_c}{E_0}}$$

P. 335, Table 8-2 for the 6.67 eV resonance $\sigma_0 = 2.16 \times 10^4$ barns

P. 345, Eq 8-113 should read
$$\beta' \equiv \frac{\sum_s^m \Gamma}{N_A \sigma_0 \Gamma_\gamma}$$

P. 419, Fig. 10-10 the abscissa (x-axis) should be $R\Sigma_t^F$