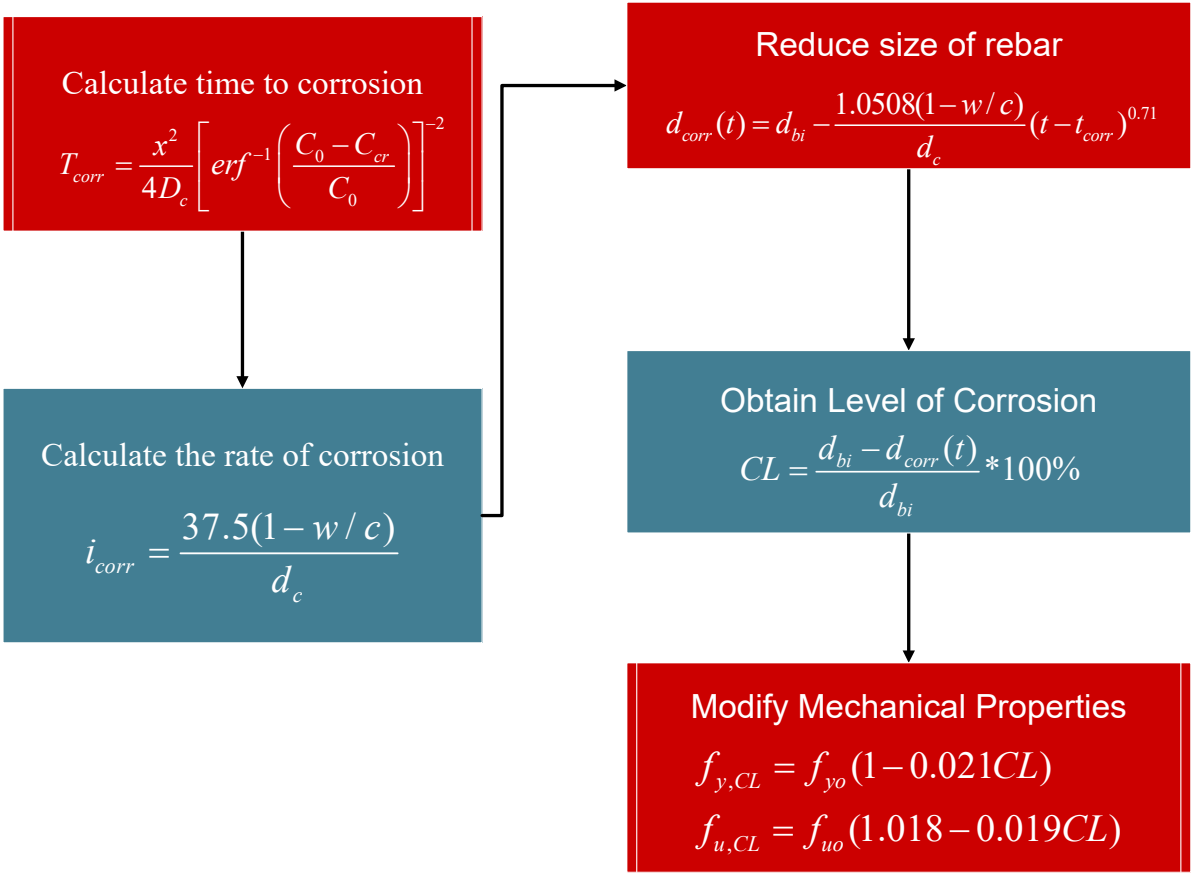
Calculate time to corrosion
$T_{corr} = \frac{x^2}{4D_c}\left[erf^{-1}\left(\frac{C_0 - C_{cr}}{C_0}\right)\right]^{-2}$
Calculate the rate of corrosion
$i_{corr} = \frac{37.5(1 - w/c)}{d_c}$
Reduce size of rebar
$d_{corr}(t) = d_{bi} - \frac{1.0508(1 - w/c)}{d_c}(t - t_{corr})^{0.71}$
Obtain Level of Corrosion
$CL = \frac{d_{bi} - d_{corr}(t)}{d_{bi}} * 100\%$
Modify Mechanical Properties
$f_{y,CL} = f_{yo}(1 - 0.021CL)$
$f_{u,CL} = f_{uo}(1.018 - 0.019CL)$