

$$B_A = \frac{\%RH}{100 * P_{Bar}} * 10 \left[6.6912 - \left(\frac{3144}{T+390.86} \right) \right]$$

B_F = Mole fraction of moisture from free water in the fuel.

$$B_F = \left[\frac{0.0036W^2 + 0.075W}{100} \right] \left[\frac{20.9 - O_2}{20.9} \right]$$

B_H = Mole fraction of moisture from the hydrogen in the fuel.

$$B_H = \left[1 - \frac{F_d}{F_w} \right] \frac{(20.9 - O_2)}{20.9}$$