

$$\underline{R} := 8.314 \quad \underline{T} := 325$$

$$x_2 := 0.2$$

Given

$$\ln(x_2) + \frac{1.105}{\left[1 + 0.95 \cdot \left(\frac{x_2}{1 - x_2}\right)\right]^2} = \frac{18803}{R \cdot 353.35} \cdot \left(1 - \frac{353.35}{T}\right)$$

$$\text{Find}(x_2) = 0.356$$