

Saturation refers to any Gas - Vapor Combination. While -  
 • Humidity refers only Air - Water Vapor System.

Absolute Humidity It is defined as the weight of Water Vapour present in a unit weight of dry (Non - condensable) gas.

$$H = \frac{\text{kg of water Vapour}}{\text{kg of dry Air}}$$

$$\begin{array}{l} \text{Vapor} = \text{Condensed} \\ \text{gas} = \text{Liquified} \end{array}$$

⇒ Molal Humidity (Molal Saturation) It is defined as the ratio of Mole of Vapour [Condensable] to the Mole of dry (Non - condensable) gas.

$$H_m = \frac{\text{kmol of Vapor}}{\text{kmol of dry gas}}$$

for air - water vapor system

$$H = H_m \left( \frac{18}{29} \right) = 0.6207 H_m$$

In Vapor - gas Mixture

$$P = P_A + P_B$$

$$PV = nRT \Rightarrow \left. \begin{array}{l} P_A = \frac{n_A}{n_A + n_B} P \\ P_B = \frac{n_B}{n_A + n_B} P \end{array} \right\}$$

$P$  = total / Barometric pr.

$P_A$  = Partial pr. of Vapor

$P_B$  = Partial pr. of ~~gas~~ gas

$$\Rightarrow \left[ \frac{P_A}{P_B} = \frac{n_A}{n_B} \right]$$

then

$$H_m = \frac{P_B}{P_B} = \frac{P_A}{P - P_A} \Rightarrow$$

$$H = 0.6207 \frac{P_A}{P - P_A}$$

# Process Calculation Chemical Engineering

**Yi-Tong Ma**



## **Process Calculation Chemical Engineering:**

## Whispering the Techniques of Language: An Psychological Quest through **Process Calculation Chemical Engineering**

In a digitally-driven world wherever monitors reign supreme and quick conversation drowns out the subtleties of language, the profound secrets and emotional subtleties concealed within phrases often go unheard. Yet, nestled within the pages of **Process Calculation Chemical Engineering** a interesting fictional prize pulsating with organic feelings, lies an exceptional quest waiting to be undertaken. Published by a talented wordsmith, this enchanting opus attracts viewers on an introspective journey, lightly unraveling the veiled truths and profound impact resonating within the cloth of each and every word. Within the emotional depths of this moving evaluation, we can embark upon a heartfelt exploration of the book is primary subjects, dissect its fascinating publishing model, and fail to the strong resonance it evokes strong within the recesses of readers hearts.

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