Write the general stoichiometric equation, and under each term indicate the number of moles of that component:

$$aA$$
 + bB + · · · = rR + sS + · · · At time 0: N_{A0} N_{B0} $N_$

Initially the total number of moles present in the system is

$$N_0 = N_{A0} + N_{B0} + \cdots + N_{R0} + N_{S0} + \cdots + N_{inert}$$

but at time t it is

$$N = N_0 + x(r + s + \cdots - a - b - \cdots) = N_0 + x \Delta n$$
 (3)

where

$$\Delta n = r + s + \cdot \cdot \cdot - a - b - \cdot \cdot \cdot$$

Assuming that the ideal gas law holds, we may write for any reactant, say A in the system of volume V

$$C_{\rm A} = \frac{p_{\rm A}}{{\bf R}T} = \frac{N_{\rm A}}{V} = \frac{N_{\rm A0} - ax}{V}$$
 (4)

Combining Eqs. 3 and 4 we obtain

$$C_{\rm A} = \frac{N_{\rm A0}}{V} - \frac{a}{\Delta n} \frac{N - N_0}{V}$$

CONT

$$p_{A} = C_{A}\mathbf{R}T = p_{A0} - \frac{a}{\Delta n}(\pi - \pi_{0})$$
 (5)

Equation 5 gives the concentration or partial pressure of reactant A as a function of the total pressure π at time t, initial partial pressure of A, p_{A0} , and initial total pressure of the system, π_0 .

Similarly, for any product R we can find

$$p_{\rm R} = C_{\rm R} \mathbf{R} T = p_{\rm R0} + \frac{r}{\Delta n} (\pi - \pi_0)$$
 (6)

Equations 5 and 6 are the desired relationships between total pressure of the system and the partial pressure of reacting materials.

It should be emphasized that if the precise stoichiometry is not known, or if more than one stoichiometric equation is needed to represent the reaction, then the "total pressure" procedure cannot be used.

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