$$\frac{V}{T} \qquad B_{ii} = \frac{V_i \phi C_t}{B_\alpha} \qquad B_\alpha = \frac{V^{RC}}{V^{SC}}$$

$$\alpha = o, w, g$$

SC → $P = 14.7$ psi, $T = 60^\circ F$

$B_o > 1$

$B_g << 1$

$B_w \sim 1$

$$Q = \frac{1}{\Delta t}[B]\{P_B\} = \frac{n_1}{\Delta t}[B]\{2P_B\}$$

$$\{2P_B\} = \begin{Bmatrix} 2P_B \\ 0 \\ 0 \\ \vdots \end{Bmatrix} = \begin{Bmatrix} 2P_B \\ Q_3 \\ 0 \\ \vdots \end{Bmatrix}$$