

PROBLEM 1.24

$$P = A + \frac{B}{V_a}$$

$\frac{1 \text{bf}}{\text{ft}^2}$   $\text{ft}^3$

By inspection of this equation, A has units of  $1 \text{bf}/\text{ft}^2$ .  $\leftarrow$

Rearranging,

$$B = [P - A] V$$

$\frac{1 \text{bf}}{\text{ft}^2}$   $\text{ft}^3$

$\Rightarrow$  B has units of  $\text{ft} \cdot 1 \text{bf}$ .  $\leftarrow$

---