

From Eq. (3), $a = 2 - c$

From Eq. (2), $d = -1 - a + 3b + c - e$
 $= -1 - 2 + c + 3 - 3c - e = 0 - c - e$

Hence

$$[Ap] = [V]^a [\rho]^b [\mu]^c [D]^e [D_c]^f$$

Grouping by exponents,

$$\left(\frac{\Delta p}{\rho V^2}\right) = \left(\frac{\mu}{DV\rho}\right)^c \left(\frac{D_c}{D}\right)^f$$

The first group on the right is the reciprocal of the Reynolds number, Re. Any dimensionless group can be inverted without affecting its validity in the correlation.

- 1.10. Power output: 360,000 kW = 360,000 kJ/s
Heating value: 30,000 kJ/kg
Rate of coal feed at 100% efficiency: 12 kg/s
Rate at 38% efficiency:

$$(12 \times 3600)/(0.38 \times 1000) = 113.68 \text{ T/h}$$

- 1.11. From Eq. (1.2B),

$$T_F = 32 + 1.8 T_C$$

If $T_F = T_C = T$

$$1.8 T - T = -32$$

$$T = -40$$

Hence $-40^\circ\text{F} = -40^\circ\text{C}$

Since T in $^\circ\text{R} = 1.8 T$ in K, the only temperature where they are equal is absolute zero.

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