

Atmospheric Physics: Reversible Study Guide

Click any black box to reveal the value. Click the text again to re-hide it.

The Poisson Equation:

The potential temperature is calculated as:

$$\theta = T \left(\frac{p_0}{p} \right)^{\frac{g}{R_d}}$$

Thermodynamic Constants:

- Dry air gas constant R_d : [REDACTED]
- Specific heat at constant pressure c_p : [REDACTED]
- Calculated ratio κ : [REDACTED]

Hydrostatic Balance:

The pressure change with height is given by:

$$\frac{dp}{dz} = -\rho g$$