

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:

$$\theta = T \left(\frac{p_0}{p} \right)^{\frac{\gamma}{\gamma-1}}$$

Thermodynamic Constants:

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

Hydrostatic Balance:

The pressure change with height is given by:

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