Question #78792

A mixture of air and water vapour at 1.013 bar and 16 degree C has a dew point of 5degree C. Calculate the relative and specific humidity's?

Answer:

From the Moeller diagram (see Figure 1), we can find:
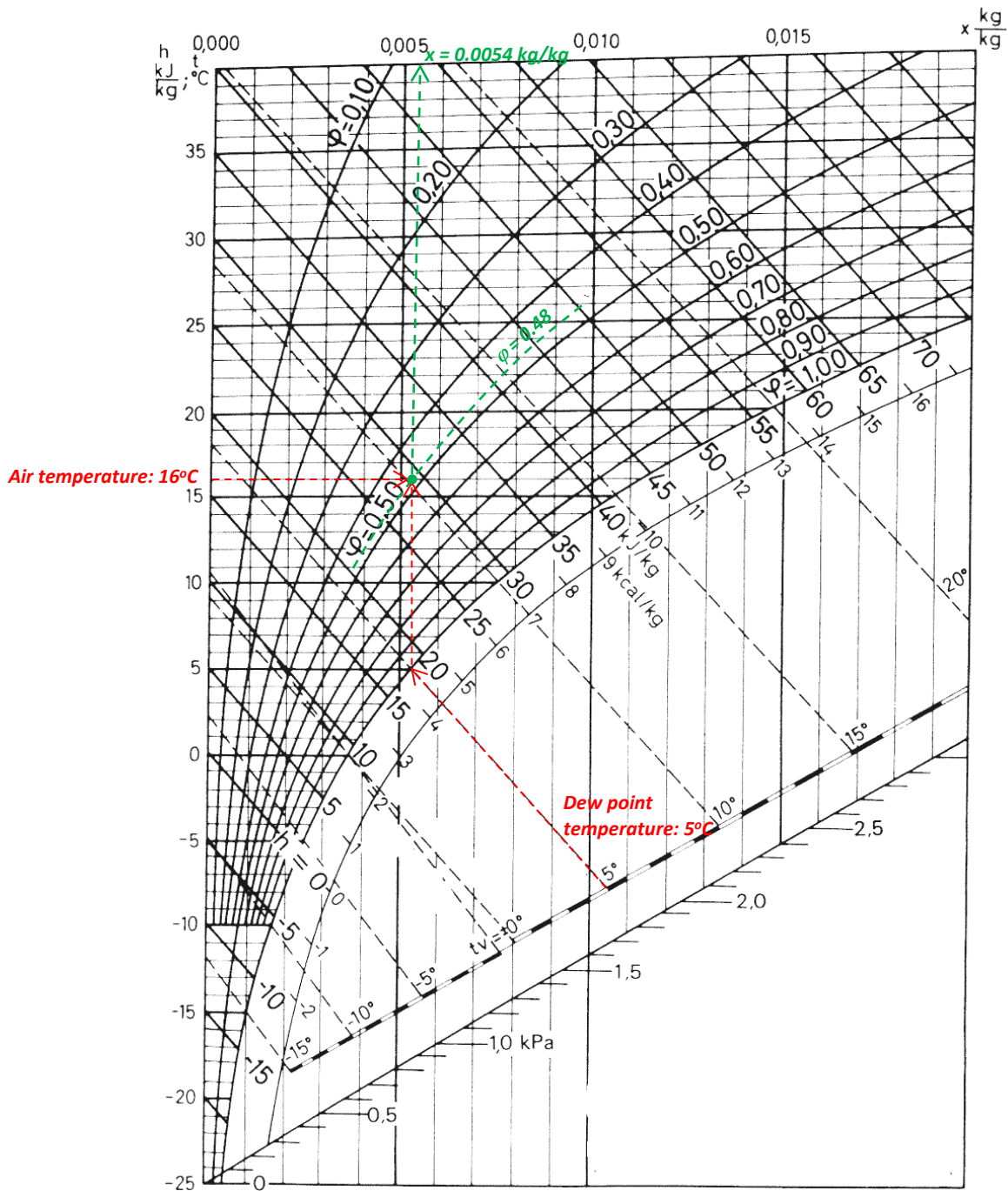
- the relative humidity is φ = 0.48 = 48%,
- the specific humidity is x = 0.0054 kg/kg.

FIGURE 1. Moeller Diagram