The hypnometric agastion: * Geopotential neight

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in crease height -> Polential energy is usually written as: do = d(92) = 90 dZ 90 = 9.8 ms-2 In defining 17, we incorporate changes in gravity into the grapotential height Jos most purposes dz ~ dZ * Returning le hydrophetic balance:

DP = -9P we used ideal gas

DE will integrate for two discrete Payers Downded by
a pressure 7, and 72 Tr (layer-mean Tr) 12P = -9 We define 1 dp = denp POZ = PUTY move to be left side () To derp = - 1 St. gdZ = - 30 St. dZ We can define the layer-mean Tr (Tu) $\overline{T}_{V} = \frac{\int_{R}^{R_{2}} T_{V} d\Omega_{R} P}{\int_{R}^{R_{2}} d\Omega_{R} P} \qquad (1)$ with Eg. (1), we can obtain the following: