10.K Use of Transpiration to Reduce Heat Losses.

(1) Without transpiration:

Integrating over the shell thickness we get:

(2) With transpirations From Eq. 10.5-30:

From an energy belance

We now combine these two expressions and nearn suge the result to obtain:

$$= \left(\frac{0.5 \times 1}{0.5}\right) \left(\frac{4\pi \times 0.02 \times 91.7}{0.22}\right) \mathcal{L} \left[\frac{(392)(0.22)}{91.7} + 1\right]$$

10.L Frictionless Processes in an Ideal Gas.

a. Substituting Cp - pO/T for Co we may write:

P Cp (Y. DT) = KD2T - P(D.X) + = (X.DT)
The (Xxpression may be recovariged with the sid of the ideal-que law to give:

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A Gutmann

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Water Research ,1985

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