

10.K Use of Transpiration to Reduce Heat Losses.

(1) Without transpiration:

$$Q_r = -4\pi k r^2 \frac{dT}{dr}$$

Integrating over the shell thickness we get:

$$Q_r = +4\pi k (T_2 - T_1) / \left(\frac{1}{r_2} - \frac{1}{r_1} \right)$$

$$= 4\pi (0.02) (30 + 362) / \left(\frac{1}{1} - \frac{1}{0.5} \right)$$

$$-Q_r = 99 \text{ Btu hr}^{-1}$$

(2) With transpiration:

From Eq. 10.5-30:

$$Q_r = 4\pi k R_0 (T_1 - T_\infty) / \left(e^{(R_0/kR)(1-\kappa)} - 1 \right)$$

From an energy balance:

$$-Q_r = w_p \lambda = 4\pi k \lambda R_0 / \hat{C}_p$$

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

$$\begin{aligned} -Q_r &= \frac{\kappa R}{(1-\kappa)} \left(\frac{4\pi k \lambda}{\hat{C}_p} \right) \ln \left[\frac{(T_1 - T_\infty) \hat{C}_p}{\lambda} + 1 \right] \\ &= \left(\frac{0.5 \times 1}{0.5} \right) \left(\frac{4\pi \times 0.02 \times 91.7}{0.22} \right) \ln \left[\frac{(392)(0.22)}{91.7} + 1 \right] \\ &= 69.5 \text{ Btu hr}^{-1} \end{aligned}$$

10.L Frictionless Processes in an Ideal Gas.

a. Substituting $\hat{C}_p = p\hat{V}/T$ for $\hat{C}_v$ we may write:

$$p \hat{C}_p (\underline{v} \cdot \nabla T) = k \nabla^2 T - p(\nabla \cdot \underline{v}) + \frac{p}{T} (\underline{v} \cdot \nabla T)$$

The ^{last term of this} expression may be rearranged with the aid of the ideal-gas law to give:

$$\begin{aligned} (p/T)(\underline{v} \cdot \nabla T) &= p(\underline{v} \cdot \nabla(p/p)) \\ &= p \left(\frac{1}{p} (\underline{v} \cdot \nabla p) - \frac{p}{p^2} (\underline{v} \cdot \nabla p) \right) \\ &= (\underline{v} \cdot \nabla p) - \frac{p}{p} ((\nabla \cdot p \underline{v}) - p(\nabla \cdot \underline{v})) \end{aligned}$$

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Water Research, 1985 *Mathematical Modeling and Scale-up of Liquid Chromatography* Tingyue Gu, 2012-12-06 Liquid chromatography has proved to be one of the most important tools for separations Rapid development in biotechnology has increased the demand for chromatography in analytical preparative and large scale applications The understanding of the dynamics of chromatography is imperative for the scale up This book is a systematic treatment of the general rate models for various forms of liquid chromatography

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