Sample Cost Calculations

Pump Cost: from page 526 Peters & Timmerhaus
For a 200 gal/min capacity pump at 30 ft of H2O

\$ 1310

Column Cost: from page 574 Douglas
Purchase Cost, $ = \left( \frac{M+S}{280} \right) (101.90 \times 1.066 \times 0.82)
= \left( \frac{1037.7}{280} \right) (101.9)(1.464)(71.25)
= \$ 797.59

For one inch polypropylene packing $ \frac{21.2}{ft^3}$ Reference?

Volume of packing = \pi r^2 h (packing height)

= \pi \left( \frac{1.464}{2} \right)^2 (65.31 ft) = 109.93 \text{ ft}^3

Cost = \$ \frac{21.2}{ft^3} \times 109.93 \text{ ft}^3 = \$ 2542.69