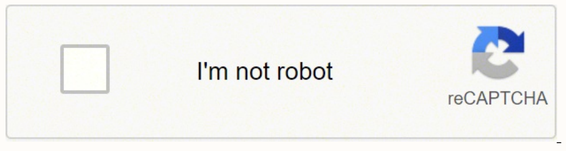

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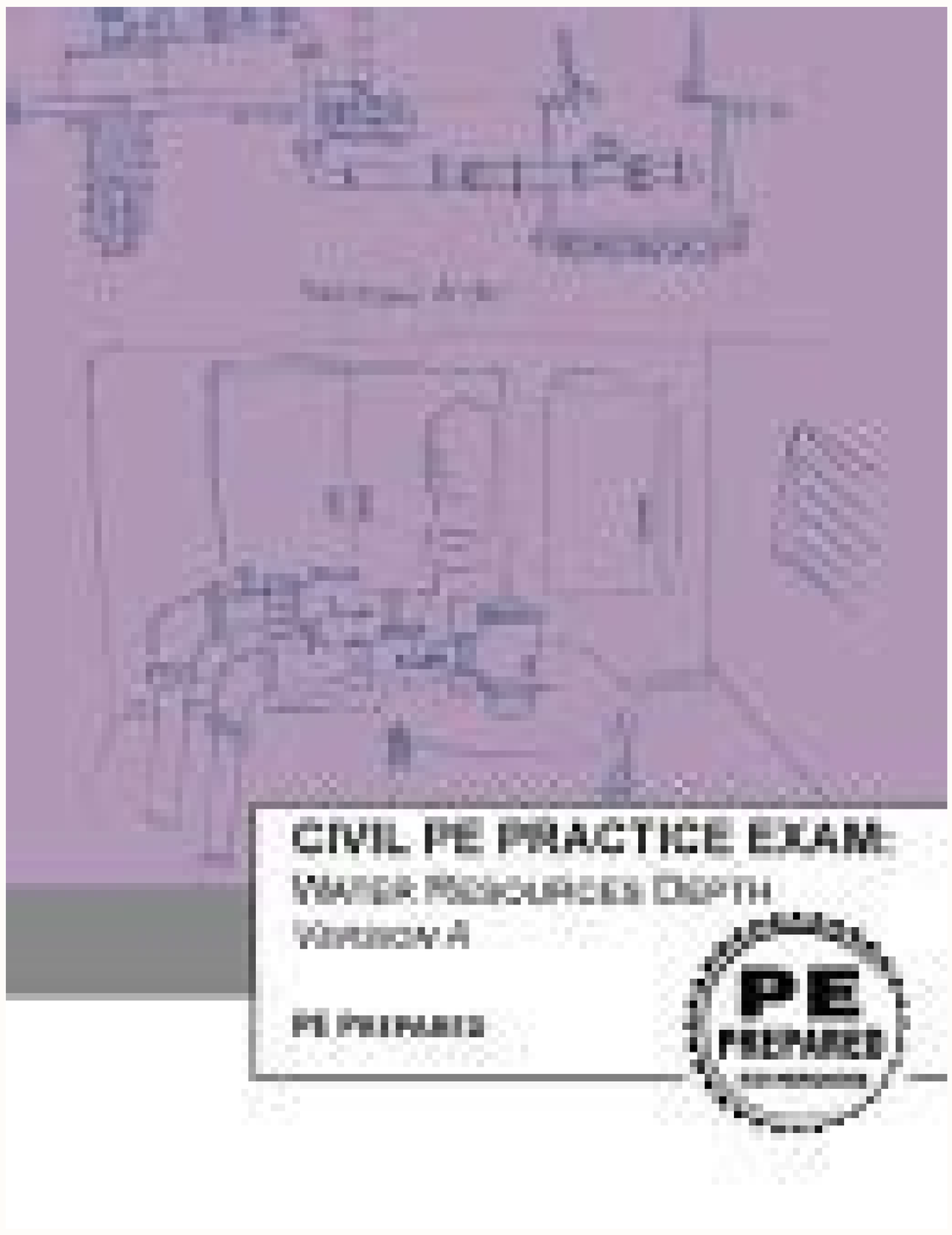


F. Pressure conduit (e.g., single pipe, force mains, Hazen-Williams, Darcy-Weisbach, major and minor losses) CERM 17-8 CERM 17-7 CERM 17-12

Hazen-Williams

Friction headloss $h_{f,ft} = \frac{3.022\, L_{ft}\, v_{ft}^{1.85}}{C^{1.85}\, D_{ft}^{1.17}}$

$Q = 1.318\, C\, A\, R_h^{0.63}\, S^{0.54}$

C = roughness coefficient

*Alternate equation available in Q_{gpm}

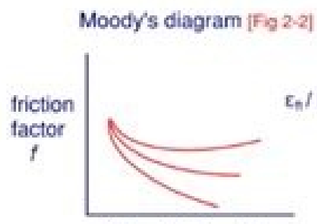
Darcy-Weisbach

Friction headloss $h_{f,ft} = \frac{f\, L_{ft}\, v_{ft}^2}{2g\, D_{ft}}$; $v = \frac{Q}{A}$

Laminar: Re < 2100 $f = \frac{64}{Re}$

Turbulent: 3000 < Re < 100,000 $f = \frac{0.316}{Re^{0.25}}$ or Moody's diagram or A-42

Moody's diagram [Fig 2-2]



$\varepsilon_h / D_h = 0.004$ ft for concrete Table 17.2 CERM 17-5

$Re = D_h\, V_{ft/sec} / v$

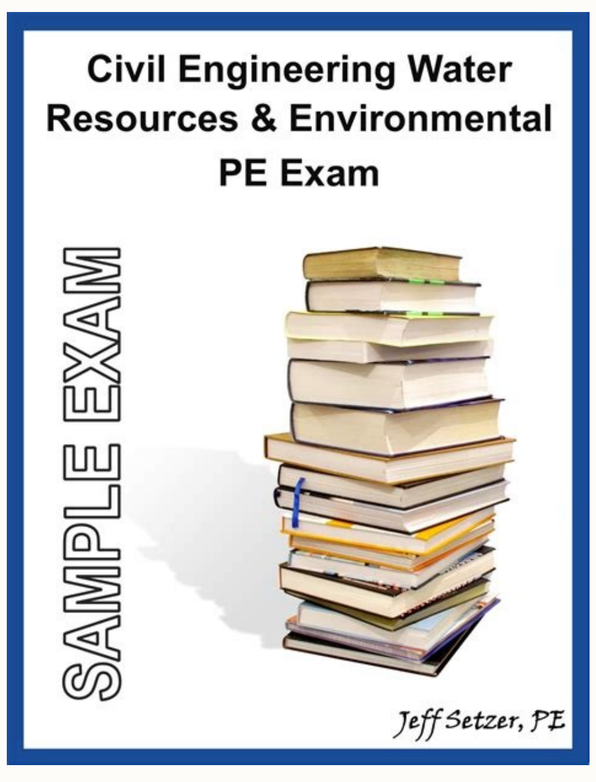
v = kinematic viscosity [A-5] = 1.41×10^{-5} ft²/sec at 50° F

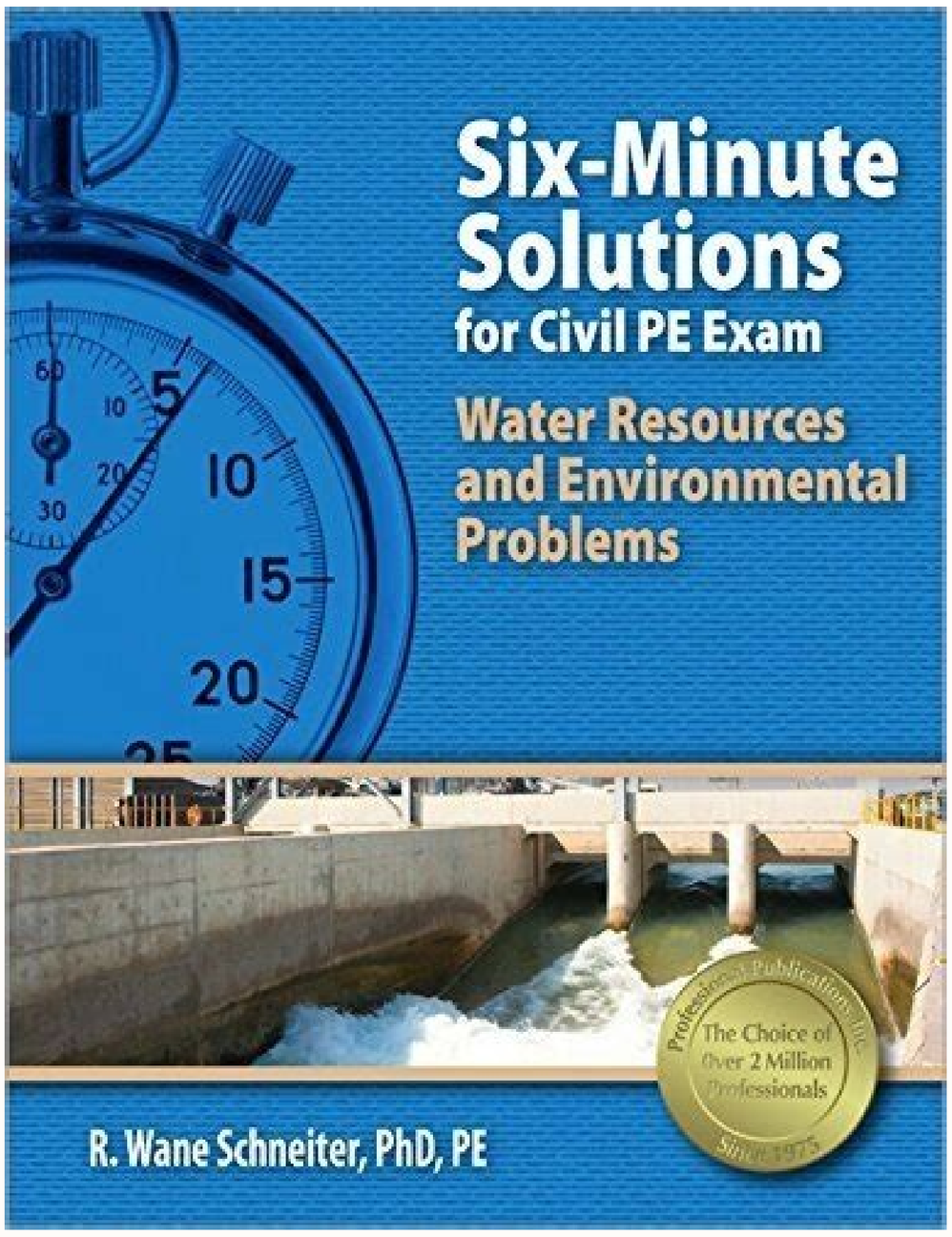
v kinematic viscosity = $\frac{\text{absolute viscosity u}}{\text{density } \rho}$

Minor headloss: $h_{L,ft} = \frac{k\, v_{ft}^2}{2g}$ k = friction loss coefficient Table 17.4

Equivalent length A-47

*Don't forget to add the length of the pipe





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