

***Civil Engineering: Problem-Solving Flowcharts, 3rd Edition***

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**The following errata, corrections, and additional information have been identified for this book.**

**p. 4, Example**

Line 2: Change  $10^4$  to  $10^6$

Line 4: Change 50 gal to 500 gal

Lines 7 & 9: (Volume): Change  $\text{ft}^2$  to  $\text{ft}^3$

Last line: In numerator, change  $\text{ft}^2$  to  $\text{ft}^3$

**p. 5, Example**

Lines 6 and 10: Change  $10^4$  to  $10^{-5}$

**p. 10, Procedure**

3<sup>rd</sup> box (Vol equation): Delete 1000 from numerator of fraction.

**p. 10, Example**

Line 9: Change 17 mg/L to 175 mg/L

Line 13 (Vol): Delete 1000 from numerator of fraction. Change  $304,254.5 \text{ ft}^3$  to  $30,425.4 \text{ ft}^3$

**p. 11, Example**

Line 6: Change  $10^4$  to  $10^6$

**p. 12, Procedure**

3<sup>rd</sup> box (Depth): Equation should read  $\text{Depth} = \sqrt{\text{volume}/(\text{length} \times 1.25)}$

**p. 12, Example**

Line 9: Change 3.09 to 3.19

Line 10: Change 3.09 to 3.19; change 556.2 to 574.2

Line 11: Change 556.2 to 574.2

Line 12: Change 29.66 to 30.62

Line 13: Change 5.45 to 5.53

**p. 13, Example**

Last line: change 3.4 to 3.9

**p. 20, Procedure**

Line 2: To distinguish weight from moisture content, change W to w

Line 4: Change  $W_{\text{FILL}}$  to  $w_{\text{FILL}}$

**p. 20, Example**

Line 3, Change  $W_{\text{FILL}}$  to  $w_{\text{FILL}}$

**p. 26, Example**

Line 18: Add % symbol after 95; change 98.60 to 98.16

Line 19: Change 98.6 to 98.16

2<sup>nd</sup> figure: Change label 98.6 to 98.16

**p. 27, Example**

Line 3 (axial stress): Change 50 to 5

**p. 31, Example**

2<sup>nd</sup> figure: Change equation label to read:  $b = (30-10) + 2/3d$

**p. 32, Example**

Line 11 (FS equation): Denominator of fraction should read:  $(110 \text{ lb/ft}^3)(45\text{ft})(0.15)$

**p. 46, Procedure**

3<sup>rd</sup> box (I equation): Change superscript 2 to superscript 3

**p. 51, Example**

1<sup>st</sup> figure: Bisect vertical 20' line and change labeling to 10' and 10'

Bisect 20' portion of horizontal line and change labeling to 10' and 10'

Add label "B" on horizontal between A and F

Change last sentence to read: "Find load in member CF."

2<sup>nd</sup> figure: Add label "B" on horizontal between A and F.

Move “CUT” line left and down so lower portion crosses between B and F instead of F and G.

3<sup>rd</sup> figure: Delete lower right corner of triangle, including adjacent vertical line with arrows and adjacent labeling (DF, FG, 2000).  
Extend line AC at C and add arrowhead; add label “CD” at arrowhead  
Change existing label “CD” to “CF”

Delete last two lines and replace with:

$$\begin{aligned}\Sigma M_A &= CF(\sqrt{(10)^2 + (10)^2}) + 2000(10) = 0 \\ CF(14.14\text{ft}) &= -20000 \\ &= 1414.4 \text{ lbs}\end{aligned}$$

**p. 92, Example**

1<sup>st</sup> figure: Label arrow from SG = 10.5 should point to vertical shaded portion of pipe.

**p. 94, Example**

Line 6: Add “steel” before “pipe.”

**p. 96, Example**

1<sup>st</sup> figure: Change 60’ to 25’

**p. 97, Procedure**

3<sup>rd</sup> box (Darcy equation): In denominator, change  $D^2$  to  $D^5$  (two instances)

**p. 108, Example**

Line 2: Change 200 to 2000

**p. 113, Example**

Line 8 ( $2.38 + 30 =$ ): In denominator, change  $(2)^2$  to  $(d_2)^2$