

ERRATA

Simplified Design – Reinforced Concrete Buildings of Moderate Size and Height –Third Edition (Publication EB104)

1. Page 2-4, 2nd line from top, change “121 ft” to “61 ft”.
2. Page 2-4, Table 2-2 change second left column numbers from “39, 27, 15” to “39, 26, 13”, respectively.
3. Page 2-16, delete the exponent to term “ ℓ_2 ” so that equation reads:
“ $M_u = 0.07(0.5w_\ell \ell_n^2) \ell_2 = 0.035w_\ell \ell_n^2 \ell_2$ ”
4. Page 3-1, 5th line from bottom (excluding footnotes). Insert “ ℓ_n ” after the word “quantity” so as to read in part “quantity ℓ_n is clear span length...”
5. Page 3-5, in the denominator of equation to compute “a”, change “ b_c ” to “ b_e ”, so as to read:

$$a = \frac{A_s F_y}{0.85 f_c' b_e}$$

6. Page 3-8, delete Table 3-5 at the top of the page and change “Table 3-6” number and heading to “Table 3-5 Total Areas of Bars- A_s (in.²)”. Add table number and heading to the Table at the bottom of the page to read “Table 3-6 Areas of Bars per Foot Width of Slab- A_s (in.²/ft).”
7. Page 3-25, under Item (5), in the equation for V_s , insert a minus sign between “0.75” and “126.4”, so as to read:

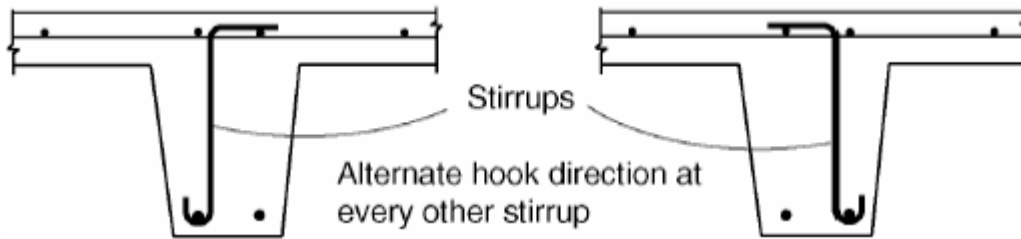
$$V_s = \frac{V_u}{\phi} - V_c = 27.4/0.75 - 126.4(12)(17.5)/1000 = 10 \text{ kips}$$

8. Page 3-25, under Item (6), Line 2, change the calculated quantity “0.0325 in.” to “0.028 in.²/in.”
9. Page 3-26, second line, change the first “ A_t ” to “ A_ℓ ”, so as to read:

$$A_\ell = \frac{A_t}{s} p_h = 0.023(50) = 1.15 \text{ in}^2 \quad \text{governs}$$

10. Page 3-26, Line 7 from the top, change “Use 2-No. 5 bars at mid-depth” to “Use 2-No. 4 bars at mid-depth”.
11. Page 3-26, Figure 3-11, change the area of longitudinal bars, from top to bottom, from “0.57 in.², 2 #5, 0.57 in.²” to “0.38 in.², 2 #4, 0.38 in.²” respectively.

12. Page 3-31, 8th line, change “53” to “66 in.”
13. Page 3-35, 4th and 5th lines line below Figure 3-15 caption, delete the words “a continuous.....configuration”.
14. Page 3-35, Replace Figure 3-16 with the following figure:



15. Page 3-36, 7th line from top of page, revise line to read:

“width of interior beams = 36 in. (2 x depth = 2 x 19.5 = 39.0 in.)”
16. Page 3-36, 3rd line above item (2), in the equation to compute “h” insert “ ℓ_n ” after the symbol “>”, so that as to read:

$$h = 19.5 \text{ in.} > \ell_n / 18.5 = \dots\dots$$

17. Page 3-37, bottom line. Some copies have faded print. The last line should read:

$$M_u = 1.2(3.9)(28.58)^2/16 + 0.8(99.56) = 317.9 \text{ ft-kips} \quad \text{ACI Eq. (9-3)}$$

18. Page 3-38, fifth line from top change “klf” to “ft-kips”, so as to read:

$$M_u = \dots\dots = 338.5 \text{ ft-kips, or } 19.9 \text{ ft-kips} \quad \text{ACI Eq. (9-6)}$$

19. Page 3-40, Figure 3-17, in the elevation view, bottom reinforcement at left end, change “5#8” to “6#8”.

20. Page 4-14, Figure 4-9. Change caption for Figure (a) to “Column strip for $b_2 \leq b_1$ ”.

21. Page 4-29, bottom line and footnote. Change “215 psi” to “190 psi”

22. Page 4-31, 9th line from top, change “12.D” to “1.2D”

23. Page 4-39, Table 4-8, slab dimension at bottom of figure, change equation for “ b_2 ” to read:

$$“b_2 = c_2 + d/2”$$

24. Page 4-41, Table 4-9, slab dimension to the right of the figure, change equation for “ b_1 ” to read:

$$“b_1 = c_1 + d/2”$$

25. Page 4-43, Table 4-10, slab dimensions. Change dimension to the right of the figure to " $b_1 = c_1 + d/2$ ". Change dimension at bottom of figure to " $b_2 = c_2 + d/2$ ".
26. Page 5-18, Figure 5-12, Notes below the figure. For "Zone 3", change "(ACI 10.11.5)" to "(ACI 10.12 and ACI 10.13)" and for "Zone 4", change "(ACI 10.11.4.3)" to "(ACI 10.11.5)"
27. Page 5-22, 7th line from the bottom. Change the sentence starting with "Points 1 to 4" to read "Points 2, 4, 6, 8 and 10 correspond to the load combinations given in ACI Eq. (9-1), (9-2), (9-3), (9-4) and (9-6), respectively".
28. Page 6-4, second line below table change symbol ">" to "≤" so as to read " $(V_u \leq \phi V_c/2)$ ".
29. Page 6-19, Figure 6-7, relocate Point 1 in the Figure from $P = 1700$ kips and $M_y = 0$ to $P = 498$ kips and $M_y = 0$.
30. Page 7-7, Figure 7-4, correct the labels for $\frac{A_f}{A_c}$ values on the 10 curves starting from the bottom to read "15, 30, 45, 60, 75, 105, 135, 165, 195, and 225".
31. Page 7-8, second line from bottom, change "Table 3-7" to "Table 3-6".
32. Page 8-5, 12th line from the bottom. Change the word "produce" to "product", so as to read in part "The product of α and β need not be taken ..."
33. Page 11-7, third line from bottom, change the constant in the equation from "0.004" to "0.044"
34. Page 11-17, lines 9 and 10 from the bottom, add units "seconds" for the calculated periods T_s and T . Also page 11-29 last two lines.
35. Page 11-24, equation for M_n , add negative sign to read $\dots(1-0.095)/12\dots$
36. Page 11-24, line 5 from the bottom, change " $r = 0.44\dots$ " to Greek " $\rho = 0.44\dots$ ". Also page 11-27, line 9, change " $r = 0.0021\dots$ " to " $\rho = 0.0021\dots$ "
37. Page 11-30, in the equation for C_s change " S_{DI} " in the numerator to " S_{DI} "
38. Page 11-32, after line 14, add the following note "where F_x indicates the force for floor x". In the next line, delete "where" before " $J_r = \dots$ "
39. Page 11-32, Table 11-11 heading, delete "and Moments" so as to read "Shear Force at each Frame"
40. Page 11-35, 9th and 5th lines from bottom, change "Table 3-6" to "Table 3-5".