Geotechnical Engineering Principles and Practices, 2nd Edition
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Errata

Revision 01: 1/8/2020

1. P. 1, last bullet: "excavate" should read "excavated"
2. P. 115 Figure 3.41: at bottom left replace "Scale: 1in. = 5ft" with "Scale: 1in. = 50ft"
3. P. 157 Problem 4.23: Replace reference to Problem 4.17 to Problem 4.22
4. P. 184 Problem 5.9 second line: "Gusing" should read "using"
5. P.218: Table 6.3, change recommendation relative compaction for earth dams to 95%.
   Second paragraph, delete sentence "This is especially likely on earth dams, where high levels of compaction are required."
6. P. 256: Example 7.1: at Point B, h_p should equal 1.60 m and h should then be 6.38 m. In solution then, Δh should be -0.75 m and i should be 0.0038.
7. P. 278: Last line above Equation 7.23, replace "k_x" with "k_z"
8. P. 282, Problem 7.11, change "Problem 7.9" to "Problem 7.10".
9. P. 284, Problem 7.31, first line, replace "Problem 7.25" to "Problem 7.29".
10. P. 286, Problem 7.34, first line, replace "Problem 7.27" to "Problem 7.33".
11. P. 289 Table at top of page: Heading of third column should read "Sand" and heading of fourth column should read "Silty Sand"
12. P. 291 Figure 8.1: equation on right hand side of figure should read

$$v_x + \frac{\partial v_x}{\partial x} dx$$

13. P. 293 first line after Equation 8.13: Replace "Equation 8.12" with "Equation 8.13"
14. P. 294 fist line after Equation 8.17: Replace "Equation 8.16" with "Equation 8.17"
15. P. 314, second paragraph: first sentence should read, "It is possible to create a physical model that illustrates the flow lines in a flow net by injecting dye into the model, as shown in Figure 8.13."
16. P. 323 third paragraph, second line: replace "Power (1992)" with "Powers (1992)".
17. P. 338 third paragraph second to last line: change "4 times D_{15}" to "4 times d_{15}"
18. P. 339 *Solution* section, fifth sub-paragraph, first line: change "$D \leqq 0.50$ mm" to "$D_{15} \leqq 0.50$ mm"
19. P. 340: line 3: change "parallel to the draing material" to " parallel to that for the drain material"
20. P. 346, Problem 8.6, first line, change "Problem 8.4" to "Problem 8.5".
    Problem 8.9, change "problem 8.3" to "Problem 8.4".
21. P. 348 Problem 8.17: in first line change "original from" to "original depth from" at end of problem after question mark add "Assume r_w = 0.06 m."
22. P. 352, Problem 8.23, first line, change "Problem 8.4" to "Problem 8.5".

23. P.374 Equation 9.27 should read

$$\Delta\tau_{yx} = -\Delta\tau_{xy} = \frac{P}{2\pi}\left[\frac{3x_f y_f z_f}{R^5} - (1-2\nu)\left(\frac{(2R+2)x_f y_f}{(R+z_f)^2 R^3}\right)\right]$$

24. P.381 Figure 9.16: change "m = xx" to "m = ∞" in two locations on figure.
25. P. 385 Example 9.6: in solution for Footing 1: (Z_f/B) = 0.40 should be dimensionless i.e. delete the m from solution.
26. P.388, one line above equation 9.43, should read

$$F_B = \left(0.100\ \text{m}^3\right)\left(9.8\ \text{kN/m}^3\right)$$

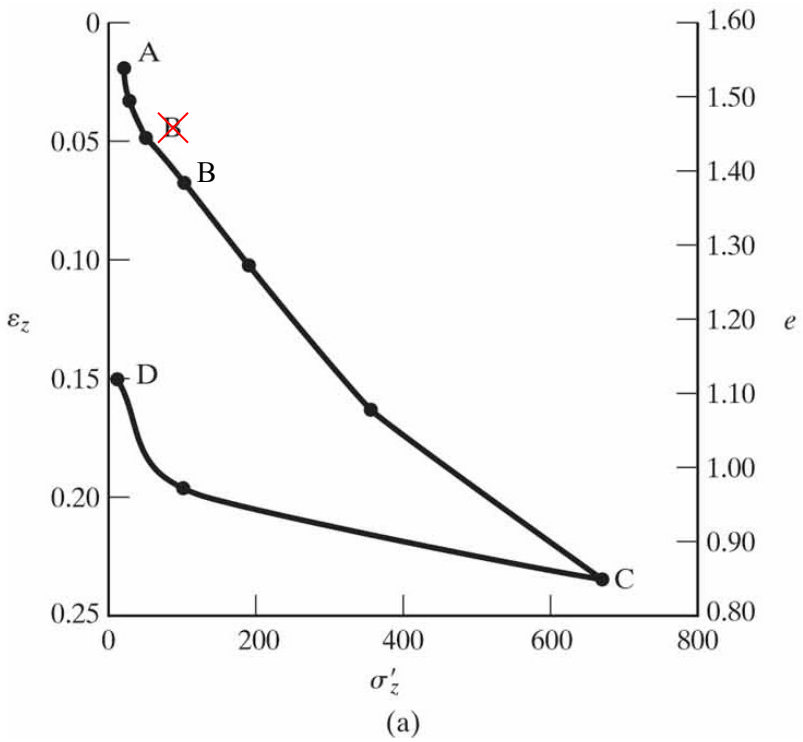
27. P. 395 equation 9.52 should read

$$\sigma'_z = z\gamma_b$$

28. P. 404, Problem 9.18, Change "Problem 9.14" to "Problem 9.16".
29. P.410, two lines above Problem 9.42: change "modulii of elasticity in the soil and the culvert" to "the modulus of elasticity of the soil to that of the culvert".
30. P.417, Example 10.1 first line above commentary should read

$$\sigma'_{zf} = 932\ \text{lb/ft}^3$$

31. P.427 Figure 10.10 (a): move point B to location shown below



32. P.441, Equation 10.21 should read

$$\varepsilon_z = -\frac{\Delta e}{1+e_0}$$

$$\varepsilon_z = \frac{C_c}{1+e_0}\log\left(\frac{\sigma'_{zf}}{\sigma'_{z0}}\right)$$

33. P.442, Equation 10.25: Equation should read

$$\delta_{\text{c,ult}} = \sum\left[\frac{C_r}{1+e_0}H\log\left(\frac{\sigma'_c}{\sigma'_{z0}}\right)+\frac{C_c}{1+e_0}H\log\left(\frac{\sigma'_{zf}}{\sigma'_c}\right)\right]$$

34. P. 445, 447, 450, & 451, in solution tables for Examples 10.5, 10.6, 10.8 & 10.9, σ'_{z0} in third column of each table should be computed using Equation 9.47
35. P. 458, problem 10.3, remove extra "10.3" at beginning of first line of problem statement.
36. P. 462, Figure 10.26, caption should read "Soil profile for 10.20 and 10.35"
37. P. 465, Figure 10.28 caption should read "Soil Profile for Problem 10.39. el = elevation."
38. P. 467, Figure 10.29 caption should read "Final cross-section for underwater tunnel as described in Problem 10.41."
39. P. 513, Problem 11.12, first line, replace "Problem 11.8" with "Problem 11.11".
40. P. 514, Problem 11.19, first line, replace "Problem 11.13" with "Problem 11.16".
41. P. 515, Problem 11.21, first line, replace "Problem 11.15" with "Problem 11.20".
42. P. 516, Figure 11.31, in caption replace "Problems 11.17, 11.18 and 11.31" with "Problems 11.22, 11.23 and 11.24"
43. Page 533 - Example 12.2, Planes at B & C are incorrect as written. Change solution to read.

    Point B— horizontal plane *s* = 54.4 kPa

    Point B— vertical plane *s* = 68.1 kPa

    Point C— horizontal plane *s* = 35.5 kPa

    Point C— vertical plane *s* = 57.2 kPa

44. P. 580, problem 12.39: "22 lb/ft^2" should be "22 lb/in^2"
45. P .624, first line, first paragraph: "magnitude 6.2" should be "magnitude 6.6"
46. P. 640, Figure 13.50 caption, change "Problem 13.15" to "Problem 13.18".
47. P. 641, Figure 13.51 caption, change "Problems 13.17 and 13.18" to "Problems 13.20 and 13.21".
48. P. 642, Figure 13.52 caption, change "Problem 13.20" to "Problem 13.24".
    Figure 13.53 caption, change "Problem 13.23" to "Problem 13.27".
49. P. 650, Figure 14.6, text in left most box in top row should read "Driven Piles"
50. P. 675, Example 15.5, the third equation in the solution should read

$$q' = 4000 + 450 - 360 = 4090 \text{ lb/ft}^2$$

51. P. 695, Figure 15.20 caption, change “Problem 15.15” to “Problem 15.16”.
52. P. 696, Figure 15.21 caption, change “Problems 15.16 and 15.21” to “Problems 15.19 and 15.24”.