

Errata and Updates for ASM Exam MAS-I (First Edition) Sorted by Page

[2/19/2018] On page 295, in the solution to exercise 23.9, on the second line, replace 2.51 with 2.52. Replace the sixth line with

$$x_2 = e^{0.75(2.52)+5.6} = 1790.05$$

Replace the last line with

$$\frac{241.21 + 1690.05 + 526.41 + 0}{4} = \boxed{614.42} \quad (\mathbf{A})$$

[12/27/2017] On page 302, in exercises 24.4 (line 3) and 24.5 (line 4), change $U_1 < cq(x)$ to $U_2 < cg(x)$.

[12/27/2017] On page 302, in exercise 24.9, delete the second sentence.

[12/27/2017] On page 303, in the solution to exercise 24.2, replace the last two sentences with

The first and second numbers are accepted. The other two are rejected because $0.44 > 0.4224$ and $0.34 > 0.2944$. The average of the accepted numbers is $(1.28 + 0.76)/2 = \boxed{1.02}$.

[1/27/2018] On page 649, in the solution to exercise 43.2, on the last line, remove the negative signs before the two $\ln x$ s: $a(x) = \ln x$ and $a(x) = (\ln x)/\sigma^2$.

[1/27/2018] On page 650, replace the solution to exercise 43.5 with

The linear component is $22 + 15 + 0 = 37$. Inverting the link, $\mu = 37^2 = \boxed{1369}$.

[1/27/2018] On page 747, in exercise 48.20, in the table, change II on the last line to III. On the line below the table, change $\beta_1 + \beta_2 = 1$ to $\beta_2 + \beta_3 = 1$.

[1/28/2018] On page 771, in the solution to exercise 50.3, change the first displayed line to

$$s = \sqrt{\frac{\text{SSE}}{n-2}} = \sqrt{\frac{5245}{23}} = 15.101$$

Change the third displayed line to

$$15.101 \sqrt{1 + \frac{1}{25} + \frac{(100 - 223)^2}{958,356.8}} = 15.517$$

Change the last line to $547.26 + 2.069(15.517) = \boxed{579.4}$.

[2/19/2018] On page 780 in the table at the top of the page, and in the corresponding table on page 786, change the second column of the D_A and D_B lines to match the following table:

| Model | Sum of Squares | Deviance |
|---|----------------|----------|
| $Y = \mu + \varepsilon_{ij}$ | SST | D_M |
| $Y = \mu + \alpha_i + \varepsilon_{ij}$ | SST - SSTR | D_A |
| $Y = \mu + \beta_j + \varepsilon_{ij}$ | SST - SSB | D_B |
| $Y = \mu + \alpha_i + \beta_j + \varepsilon_{ij}$ | SSE | D_I |

Interchange formulas (51.9) and (51.10) on pages 780 and 786; in other words, change D_B to D_A in formula (51.9) and D_A to D_B in formula (51.10)

- [2/19/2018] On page 805, in the solution to exercise 51.26, change D_A to D_B all three times it appears, and change D_B to D_A all two times it appears.
- [2/19/2018] On page 806, in the solution to exercise 51.29, on the second and last lines, replace 2.361 with 3.056. Replace the final answer with 2970.43.