Corrections to: Quantitative Geosciences: Data Analytics, Geostatistics, Reservoir Characterization and Modeling

Corrections to: Y. Z. Ma, *Quantitative Geosciences: Data Analytics, Geostatistics, Reservoir Characterization and Modeling*, <https://doi.org/10.1007/978-3-030-17860-4>

The original version of the book was inadvertently published with certain errors. These have now been corrected.

1. On page 41: The prospect's acreage was inadvertently mentioned as $50 \times 50 \text{ km}^2$. This has now been corrected as below and the sentence now read as:

“a prospect's acreage is areally $50 \times 70 \text{ km}^2$ ”

2. On page 226: The second figure caption (Fig 9.15: (b) Histogram of bulk volume of oil (product of S_o and $Phie$ or SoPhie)) in Chapter 9 has been updated as “SoPhie”

3. On page 308: Equation 13.9 has been corrected as below

$$\gamma(h) = c \left[1 - \exp \left(\frac{-3h^2}{a^2} \right) \right]$$

4. In page 384: Equation 16.22 in Chapter 16 has been inadvertently mentioned as $s_m^2 = \text{Variance}(m^*) = -\mu_m = (\mathbf{u}^t \mathbf{C}_{zz}^{-1} \mathbf{u})^{-1}$. This has now been corrected as below in the book.

$$e_m^2 = \text{Variance}(m^*) = -\mu_m = (\mathbf{u}^t \mathbf{C}_{zz}^{-1} \mathbf{u})^{-1}.$$

5. On page 386: The subscripts and superscripts are kept as they are in the equation 16.29 in Chapter 16.

6. On page 393: Equation 16.45 has been corrected as below:

$${}_{\text{es}}\sigma_{y_i}^2 = \sigma_{y_i}^2 - (\mathbf{c}_{y_i z}^t \mathbf{A}_{y_i} + L_{y_i})$$

The updated version of this book can be found at

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https://doi.org/10.1007/978-3-030-17860-4_9

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7. On page 406: Equation 17.1 in Chapter 17 has been corrected as below.

$$\text{Variance}\{P(x)\} = \text{Variance}\{P^*(x)\} + \sigma_{sk}^2$$

8. On page 414: The equation number has been inadvertently numbered as 17.11. This has now been corrected as 17.13.