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Chapter 2
The Mean and Variance of a Tracer Curve

O. Levenspiel, *Tracer Technology*, Fluid Mechanics and Its Applications 96,
DOI 10.1007/978-1-4419-8074-8, © Springer Science+Business Media, LLC 2012

DOI 10.1007/978-1-4419-8074-8_13

Page 7, equation 2.6
Please insert = and change last = to a − (minus)

$$\sigma^2 = \frac{\sum t_i^2 C_i \Delta t_i}{\sum C_i \Delta t_i} - \bar{t}^2 \quad \frac{\textit{for equal}}{\Delta t_i} = \frac{\sum t_i^2 C_i}{\sum C_i} - \bar{t}^2.$$

Page 8
Please insert an 'A' at the beginning of the sentence.

2. For symmetrical S-shaped data
   A smooth S-shaped step-response curve often corresponds to …

The online version of the original chapter can be found at
http://dx.doi.org/10.1007/978-1-4419-8074-8_2

ERRATUM

Chapter 3
The E and E_θ Curves from Pulse and Step Tracer Experiments

O. Levenspiel, *Tracer Technology*, Fluid Mechanics and Its Applications 96,
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Page 21
Fig. 3.15 F value from the last of Table EZ should be Fig. 3.15 F value from Table E2.

Page 22
On line 3 - Please change this equation from $\underline{\underline{\mathrm{m}}}$ to $\dot{m}$

(where you remove the line under the 'm' and add a dot over the 'm' and italicize the 'v')

Page 22
On line 4 - Please insert 'However' before *from the above graph* and add a ':' after *graph*

However from the above graph:

The online version of the original chapter can be found at
http://dx.doi.org/10.1007/978-1-4419-8074-8_3

ERRATUM

Chapter 6
The Mean and Variance of a Tracer Curve

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Page 52, equation 6.4
First row of equation: Please change the t in the denominator to a t with a line above it

$$= \frac{\bar{t}_E}{t} = \frac{\bar{t}_E v}{V} = 1$$

to

$$= \frac{\bar{t}_E}{\bar{t}} = \frac{\bar{t}_E v}{V} = 1$$

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ERRATUM

Chapter 7
Intermixing of Flowing Fluids

O. Levenspiel, *Tracer Technology*, Fluid Mechanics and Its Applications 96,
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Page 75
Please add (see Fig. 6.3) to the sentence on line 4
"Since **D**/ul < 0.01, the tracer curve is symmetrical, (see Fig. 6.3) so"

The online version of the original chapter can be found at
http://dx.doi.org/10.1007/978-1-4419-8074-8_7

ERRATUM

Chapter 8
The Tanks-in-Series Model

O. Levenspiel, *Tracer Technology*, Fluid Mechanics and Its Applications 96,
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Page 85
Figure 8.5, Please make the *D* in the equation a bold upright **D**

$$\sigma_\theta^2 = 2\left(\frac{D}{uL}\right) = \frac{1}{N}$$

to

$$\sigma_\theta^2 = 2\left(\frac{\mathbf{D}}{uL}\right) = \frac{1}{N}$$

Page 85
At the bottom of page 85, in the reference, please add CES **17** 576
"For large deviation from plug flow, see Levenspiel CES **17** 576 (1962)"

The online version of the original chapter can be found at
http://dx.doi.org/10.1007/978-1-4419-8074-8_8

ERRATUM

Chapter 12
Meandering Flow and Lateral Dispersion

O. Levenspiel, *Tracer Technology*, Fluid Mechanics and Its Applications 96,
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Page 130
The equation 12.4 in page 130 is erroneous. We have corrected it to make it appear as follows:

$$\overline{C_i^2} = \int_{t_1}^{t_2} \frac{C_i^2 \mathrm{d}t}{t_2 - t_1} \quad i = A, B, D.$$

Page 131
In the last sentence tracaer is misspelled. It should be tracer.

Page 133
In equation 12.16 remove this '2'

$$\mathbf{V}[C_\mathrm{m}] = 2(0.6727) - 2(0.7854) = 0.56 \text{ cm}^2$$

to

$$\mathbf{V}[C_\mathrm{m}] = 2(0.6727) - (0.7854) = 0.56 \text{ cm}^2$$

The online version of the original chapter can be found at
http://dx.doi.org/10.1007/978-1-4419-8074-8_12

In equation 12.17 the last numeral should be = 0.056 NOT 0.56.

$$\mathbf{D}_{\mathrm{d}} = \mathbf{V}[C_{\mathrm{d}}] \cdot \frac{u}{z} = 0.2254\ \mathrm{cm}^2 \left(\frac{20}{80}\right) = 0.56\ \frac{\mathrm{cm}^2}{\mathrm{s}}$$

to

$$\mathbf{D}_{\mathrm{d}} = \mathbf{V}[C_{\mathrm{d}}] \cdot \frac{u}{z} = 0.2254\ \mathrm{cm}^2 \left(\frac{20}{80}\right) = 0.056\ \frac{\mathrm{cm}^2}{\mathrm{s}}$$