Errata for A Heat Transfer Textbook, $5^{\text {th }}$ ed. (as of April 2, 2024). These apply to the print edition (Dover Publications, 2019, ISBN 978-048683735-2) and the ebook version 5.00.

Page 19, eqns. (15) and (16): change sign of lefthand side of both equations
Page 24, line 2b: delete " $c=$ "
Page 25, Fig. 1.12: "gas temperature" should be "initial temperature difference"
Page 39, Prob. 1.9: answer is "1125 J" (not 1123)
Page 43, Prob. 1.28: change "2,257,000" to " $2,450,000$ "
Page 44, Prob. 1.33: answer is " $-270 \mathrm{~W} / \mathrm{m}^{2}$ " (not 270)
Page 49, line 3b: should read "heat conduction, or heat diffusion, equation..."
Page $68,2^{\text {nd }}$ equation: change sign of the righthand side to have $-k C_{1} / r_{o}$
Page 91, Prob. 2.23: change "firebrick" to "facing brick"; answer is $40^{\circ} \mathrm{C}(\operatorname{not} 460)$
Page 92, Prob. 2.32: answer is " $7.21 \times 10^{6} \mathrm{~kJ} / \mathrm{h}$ " (not $7.12 \times 10^{6}$ )
Page 94, Prob. 2.42: Change " 50 " to " 1.5 " and change " $99.66 \%$ " to " $89 \%$ "
Page 96, Prob. 2.46(e): Change "reduce" to "increase"
Page 100, Fig. 3.1: "exhaust" should be "compressor air" and "kitchen" should be "refrigerator"
Page 100, line 9b: "3.7" should be "3.7b"
Page 112, line 7: Change " $T_{h_{\text {out }}}$ " to " $T_{\mathcal{C}_{\text {out }}}$ "
Page 132, Prob. 3.18: answer is " $76.85^{\circ} \mathrm{C}$ " (not 75.09)
Page 132, Prob. 3.20: answer is " $135.7^{\circ} \mathrm{C}$ " (not 140.5)
Page 135-6, Prob. 3.41: The latent heat should be " $23.1 \mathrm{~kJ} / \mathrm{kg}$ " (not 850 ). This problem has been rewritten in Version 5.10.

Page 178, unnumbered equation: $x=d x$ should be $x+d x$
Page 180, second equation: $(0.04-0.15)^{3}$ should be $(0.04-0.015)^{3}$
Page 237, line 11b: "three" should be "four".
Page 244, lines 14b-12b: The interior and exterior shape factors are equal for regular polygons, not for arbitrary shapes.

Page 256, Problem 5.22: The answer for (c) is $S_{c} \simeq 0.588 ; S_{d}$ is substantially greater than $S_{c}$, but difficult to compute accurately as a result of the exterior corners.

Page 259, Prob. 5.27: For (b), $T_{\text {sfc }}$ should be " $216^{\circ}{ }^{\circ}$ " (not 200); for (c), $T_{\text {sfc }}$ should be " $259^{\circ}{ }^{\circ}$ " (not 255)
Page 261, Prob. 5.42: melting temperature should be " $60^{\circ} \mathrm{C}$ " (not 40)
Page 264, Prob. 5.52b: $\tau$ should be $T$ in the equation.
Page 264, Prob. 5.53: "eqn. (5.13)" should be "eqn. (5.14)"
Page 265, Prob. 5.56b: "a wire" should be "a wire of radius $\delta$ "
Page 265, Prob. 5.61: solve this problem for a fixed position and take $r / r_{o}=1$.
Page 307, eqn. (6.62): Change " 0.565 " to " 0.564 "
Page 311, eqn. (6.71): Change " 0.453 " to " 0.4587 "

Page 320, line 7b: "(6.88)" should be "(6.87)"
Page 328, line 16: "viscosity" should be "Prandtl number"
Page 329, line 1 and legend of figure: " 4.1 " should be "4.3"
Page 333, eqn. (6.124): The last term should be: " $\frac{1}{c}\left(0.0296 \operatorname{Re}_{u}^{0.8} \operatorname{Pr}^{0.6}-0.332 \operatorname{Re}_{l}^{1 / 2} \operatorname{Pr}^{1 / 3}\right)$ "
Page 335, Example 6.9 solution: The previous correction should be carried into the example, leading to these changes: $\overline{\mathrm{Nu}}_{L}=1,435, \bar{h}=18.82 \mathrm{~W} / \mathrm{m}^{2} \mathrm{~K}, Q=752.8 \mathrm{~W}$.

Page 339, Prob. 6.18: "eqn. (6.115)" should be "eqn. (6.114)"
Page 399, Prob. 7.15: tube temperature should be " $30^{\circ} \mathrm{C}$ " (not 27 )
Page 399, Prob. 7.16 , last line: " 0.5 mm " should be " 0.4 mm "
Page 399, Prob. 7.17: The relative roughness should be " $\varepsilon / D=0.002$ " (not 0.0006 ) and the answer should be " $h=394 \mathrm{~W} / \mathrm{m}^{2} \mathrm{~K}$ ".

Page 405, Prob. $7.47,2^{\text {nd }}$ para., line 5: " 20 cm " should be " 20 mm ".
Page 418 , eqn. (8.13b): The subscript " $D$ " should be " $L$ " on both Nu and Ra.
Page 418 , eqn. (8.13b): The exponent $1 / 6$ should apply only to Ra, not to the entire expression in square brackets.

Page 418 , last line: $\beta$ should also be evaluated at $T_{f}$.

Page 459, Problem 8.37: Use $\varepsilon=0.7$; the answer should be "25.8 W" (not 10.5)
Page 472, line 1: Change "like operate" to "like to operate"
Page 496, Fig. 9.12: In the ordinate label $\sqrt{g \cdots}$ should be $\sqrt[4]{g \cdots}$.
Page 526, Problem 9.17: Line 1, "...of position $z \ldots$ "; line 2, "Set $z=0$ where..."
Page 528, Problem 9.34: The last term on the right-hand side should be $4 q_{w} L / G D h_{f g}$.
Page 529, Problem 9.36: "Sect." should be "Table".
$\underline{\text { Page } 580, ~ e q n . ~(10.45): ~ T h e ~ r i g h t-h a n d ~ s i d e ~ o f ~ t h e ~ e q u a t i o n ~ s h o u l d ~ b e: ~} \cdots=\sum_{j=1}^{n}\left(A_{i} \delta_{i j}-A_{i} F_{i-j}\right) \sigma T_{j}^{4}$.
Page 590, line 12b: Change "hydrogen" to "oxygen".
Page 602, Problem 10.10: Answer should be " 0.087 " (not 0.145).
Page 638, last line: Change "Problem 10.53" to "Problem 11.53".
Page 641, Example 11.7, line 2: "species 1" should be "species 2".
Page 642, Example 11.8, line 5: "species 1" should be "species $i$ ".
Page 652, line 2: "density" should be "concentration".

answer to (b) changes to $2.03 \mathrm{~g} / \mathrm{m}^{2} \mathrm{~s}$ and the answer to (d) changes to $5.58 \mathrm{~g} / \mathrm{m}^{2} \mathrm{~s}$. Also, in part (b), "ethane" should be "methane".

Page 743 , second entry for $c$ : Replace " $c$ " by " $c i$ "

