# Transport Processes and Separation Process Principles

**5th Edition**

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# Corrections to the first printing (April 2018)

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| **Pg** | **Error** | **Correction** |
| **7** | In section 1.2B:1 g mass (g)  11023 kg mass (kg) 1 cm  11022 m1 dyne (dyn)  1 g  cm/s2  11025 newton (N) 1 erg  1 dyn  cm  11027 joule (J) |  1 103 kg 1 102 m 1 105 newton 1 107 joule(Erroneous “2”s in exponents should be minus signs.) |
| **74** | Figure 4.2-3 doesn’t refer to Example 4.2-2 | Corrected section 4.2E is available for download from informit.com/title/9780134181028  |

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| **87** | Eq. (4.3-29):*Ry*  *mv*2 sin **2  *mv*1 sin **1  *p*2 *A*2 sin **2  *p*1 *A*1 sin *J*  *mt g* | *Ry*  *mv*2 sin**2  *mv*1 sin**1  *p*2 *A*2 sin**2  *p*1*A*1 sin**1  *mtg*(Subscript “j” should be “1”) |
| **91** | Eq. (4.4-3):*r rx*  *r**r* *r rx*  *r*  *p x*  *p x**r*  *r*  *r x* | (*r rx* )*r**r*  (*r rx* ) *r*  *r*  *p x*  *p x**x* *r* *x* |
| **101** | Second-to-last line of Problem 4.2-12: “Calculate the lost work 0.1133 m3/s. friction loss)” | “Calculate the lost work 0.1133 m3/s (friction loss)” |
| **139** | Third-to-last line of Problem 5.1-1: | 5.33107 m3 /s (Add minus sign in exponent.) |
| **217** | Last full line of Problem 8.3-3:*vz*  *vz* max . | *vz*  *vz* max.(Change minus sign to equals sign.) |
| **290** | In first line of Example 12.6-3: “Recalculate Example 12.6-1 for combined radiation” | “Recalculate Example 12.**5**-1 for combined radiation” |
| **379** | Last sentence of problem 14.2-3: “Show that Eq. (6.2- 3) holds by starting with Eq. (6.2-1).” | “Show that Eq. (**14**.2-3) holds by starting with Eq. (**14**.2-1).” |
| **381** | First sentence of Problem 14.4-2: “Use the same conditions as in Problem 6.4-1 but” | “Use the same conditions as in Problem **14**.4-1 but” |
| **381** | First sentence of Problem 14.4-3: “Use the same conditions as in Problem 6.4-1” | “Use the same conditions as in Problem **14**.4-1” |
| **381** | Last sentence of Problem 14.4-5: “Also, Eq. (6.4-7) should be used.” | “Also, Eq. (**14**.4-7) should be used.” |
| **381** | First sentence of Problem 14.4-6: “Repeat Problem 6.4-5” | “Repeat Problem **14**.4-5” |
| **381** | First sentence of Problem 14.4-7: “For the conditions of Example 6.4-3” | “For the conditions of Example **14**.4-3” |

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| **381** | First sentence of Problem 14.4-8: “Repeat Example 6.4-3, but instead use the alternative boundary condition, Eq. (6.4-11).” | “Repeat Example **14**.4-3, but instead use the alternative boundary condition, Eq. **14**.4-11).” |
| **383** | In Problem 14.6-5: | * x* /*L**q*  *q*0*e* ,(Erroneous "2" in exponent should be a minus sign.) |
| **435** | Eq. (15.8-18):*Af*  2**  *Lc xw* longitudinal fin | [Delete second part of equation—it is not needed.] |
| **451** | Eq. (16.3-12): | Use the same conditions as in Problem 14.4-1 but with the following change.1 exp  *UA* 1 *C*min  *C*  *C* **   min  max  1 *C*min exp  *UA* 1 *C*min *C*  *C*  *C* max  min  max  |
| **681-****682** |  |  0.226  *N* 0.5  *G* 0.5  *G* 0.35 *y* *HG*  *Hy*    *Sc*   *x*    (22.8-1) *f p*  0.660   6.782   0.678  0.357  *N* 0.5  *G * 0.3*HL*  *Hx*    *Sc*   *x*  (22.8-2)3 *f p*   372   6.782 0.8937 10  |
| **1152** | Continuation of Table A.5-1 contains errors in the right-most column | Complete, corrected Table A.5-1 is available for download from informit.com/title/9780134181028 |



This errata sheet is intended to provide updated technical information. Spelling and grammar misprints are updated during the reprint process, but are not listed on this errata sheet.