Typo's in *Elements of Gas Turbine Propulsion* (First and Second Printings)

Note: The First Printing is characterized by a text thickness of approx 1.5" and a code on the Library of Congress/Publishing Data page that reads "1 2 3 4 5 6 7 8 9 0 DOC DOC 9 0 9 8 7". The third printing has a code that reads "3 4 5 6 7 8 9 0 DOC DOC 9 0 9 8 7"and a text thickness of almost 2.5".

As of April 28, 2004 (changes made since May 7, 2002 list marked with ++)

Page xxvii in FOREWORD - Figure 7 has the wrong picture. This is the first experimental engine after the second reconstruction in 1938.

Page 9, Figure 1-6 - Label in upper right of figure should read to $3000^{o}F$

Page 20, Equation 1-5 - Correct the numerator so that this equation reads $F = \dfrac{\left(\dot{m}_0 + \dot{m}_f\right)V_e - \dot{m}_0 V_0}{g_c} + \left(P_e - P_0\right)A_e$

Page 23, Figure 1-14c the y-axis values should be 5,000, 10,000, 15,000, 20,000, and 25,000; not 10,000, 20,000, 30,000, 40,000, and 50,000.

Page 26, 3rd line in Note- Change word "next" to "net"

Page 30, Example 1-1, Solution, Third Line - Change numerator of ratio from "M_0" to "a_0"

Page 31, 3rd line from the bottom "aricraft" should be "aircraft"

Page 35, Figure 1-21 - The label for 20 and 15 degree of flaps are reversed

Page 45, Equation (1-42) - Change last term in denominator from "c_g" to "g_c"

Page 47, Equation on second line - Change first term in denominator from "D_C" to "C_D"

Page 60, Problem 1-3, first line – Change "to" to "and"   ++

Page 61, Problem 1-7, first line – Change "power" to "thrust"   ++

Page 78, Second line of Section 2.6 – Change "contrained" to "constrained"

Page 83, Equation (2-24) - Change the small "v" to a capital "V" in the out term on the right hand side of the equation

Page 89, equation on bottom of page – Remove "dot" over s_1.

Page 91, 2nd line of the 2nd paragraph, change ($F_{\sigma D} = F_{D\sigma}$) to ($F_{\sigma D} = - F_{D\sigma}$)

Page 92, First equation - Change the "F_1" to "P_1"

Page 95, Figure 2-18 - Change the moment arm length in the top figure from "0.2 m" to "0.8 m"

Page 98, Table 2-3 – Change the molecular weight of air to 28.97

Page 99, Equation 2-43 should be $s_2 - s_1 = \int_{T_1}^{T_2} c_p \dfrac{dT}{T} - R \ln \dfrac{P_2}{P_1}$

Page 106, Change "But" to "Btu" once in Equation (2-72a) and four times in Table 2-4

Page 116, Second line from the bottom - Change "8000" to "800" and "fiight" to "flight"

Page 118, Figure 3-3 - Change "150 psia" to "15 psia"

Page 137, Fifth line from bottom of page – Change "velocity" to "velocity variation" ++

Page 138, Equation 3-19, Change to read $P_1 + \dfrac{\rho_1 V_1^2}{g_c} = P_2 + \dfrac{\rho_2 V_2^2}{g_c}$

Page 138, Equation 3-20, Change to read $c_p T_1 + \dfrac{V_1^2}{2g_c} = c_p T_2 + \dfrac{V_2^2}{2g_c}$

Page 140, Equation 3-25 should be $f_1(M_1) = \dfrac{P_2}{P_1} = \dfrac{2\gamma}{\gamma+1} M_1^2 - \dfrac{\gamma-1}{\gamma+1}$

Page 146, Figure 3-26 – Change direction of vector L_2 to align with oblique shock

Page 157, Left side of Figure 3-35 - Change "M_2" to "M^2" and "Pt" to "P_t"

Page 170, Top-right of figure 3-44 - Change "Receiver, P_e" to "Receiver, P_a"

Page 176, Figure 3-49 - on the upper portion of the Rayleigh line, change $M > 1.0$ to $M < 1.0$; on the lower portion of the Rayleigh line, change $M < 1.0$ to $M > 1.0$.

Page 179, 6th line of text from the top of the page - Change "flgure" to "figure"

Page 187, First equation – Change t_{t1} in denominator to T_{t1} ++

Page 187, in the Table for a q_{in} of 30 BTU, change M_2 from 0.452873 to 0.432873 ++

Page 187, Equation (3-54) should be changed to $M_2^2 = 1 - \dfrac{\Delta(1+\Delta)}{1 - 2\gamma\Phi + \Delta}$

Page 196, last equation on page should be changed to $\dfrac{dV}{dx} = \dfrac{\gamma M^2}{2(1-M^2)} \dfrac{4c_f}{D} V$

Page 197, Equation (3-67) - Change "$1 - m^2$" to "$1 - M^2$" in numerator of first term of right hand side

Page 202, In the paragraph before equation 3-68, the duct length should be changed from "10-ft" to "10-inches"

Page 207, Data for part b - Change "$T_{t0} = 7$" to "$T_{t0} = 27$"

Page 211, The last term in the Equation in Problem 3-29a should be changed from $\left(\dfrac{A}{A^*}\right)_{M_6}$ to $\left(\dfrac{A^*}{A}\right)_{M_6}$

Page 216, Equation (4-2) - Correct it to read $\boxed{\text{Installed engine thrust } T = F - D}$

Page 219, Equation in middle of page - Correct it to read $P_1 = \dfrac{P_{t1}}{\left\{1 + \left[(\gamma-1)/2\right]M_1^2\right\}^{\gamma/(\gamma-1)}}$

Page 219, Data at bottom of page - Correct units of area to read "ft^2"

Page 229, Figure 4-15b - Correct "Linear" to "Liner"

Page 230, Delete leading zero in Figure number 4-17

Page 239, Figure 4-38 - Add "(Reprinted by permission of Addison Wesley Longman Limited, London)" to figure title

Page 242, Third line from top - Change exponent of (T_t/T) to "$\gamma/(\gamma-1)$"

Page 257, Bottom equation – Remove minus sign from denominator

Page 259, Equation (5-29) – Correct $\tau_t \tau_c$ in denominator to $\tau_r \tau_c$ ++

Page 259, Equation (5-32d) - Correct it to read $\tau_\lambda = \dfrac{T_{t4}}{T_0}$

Page 259, Equation (5-32f) - Correct it to read $\tau_t = 1 - \dfrac{\tau_r}{\tau_\lambda}(\tau_c - 1)$

Page 259, Equation (5-29) – Correct τ_t in denominator under the square root to τ_r

Page 260, Figure 5-8a - Correct top three labels of vertical axis to 80, 100, and 120

Page 261, Figure 5-8b - Change units of vertical axis label from "[(lbm/sec)/lbf]" to "{(lbm/hr)/lbf]" and change labels starting at 0.7 and ending at 1.5

Page 265, Second equation – Correct $\tau_{t\lambda}$ to τ_λ and correct T_t to τ_t ++

Page 276, 6th line, swap the words "fan" and "core"

Page 276, Boxed equations – Correct $\tau_f = \dfrac{T_{t13}}{P_{t2}}$ to $\tau_f = \dfrac{T_{t13}}{T_{t2}}$ ++

Page 286, Figure 5-23c – Correct second tic mark on vertical axis from "0.026" to "0.024"   ++

Pages 290-91, Figures 5-25a through 5-25c – Correct origin of horizontal axis from "0" to "1"   ++

Page 307, Equation (5-66), Correct numerator by adding a minus sign after first variable so that it reads the same as Equation (5-69a)

Page 309, Figure 5-30, Change label of horizontal axis to "alpha" (bypass ratio)

Page 313, Figure 5-36, Change label of point on T-s diagram from "t15" to "t16"

Page 316, Equation (5-80), Correct τ_T in denominator to τ_r

Page, 319, Figure 5-37a, Change label of second solid curve from the bottom from "3 2" to "2 2"

Page 338, Problem 5-10, Correct "But" to "Btu"

Page 339, Problem 5-11, Correct "$T_{t4} = 1670$" to "$T_{t4} = 1670\ \text{K}$"   ++

Page 349, Equation (6-4), Correct numerator of equation so that the equation reads $\eta_d = \dfrac{\tau_r \left(\pi_d\right)^{(\gamma-1)/\gamma} - 1}{\tau_r - 1}$

Page 351, Figure 6-5, Correct labels of vertical axis to read from 0.3 to 1.0 in steps of 0.1

Page 353, Last sentence, Swap the words "pressure ratio" and "efficiency"

Page 354, Equation (6-13), Correct 2nd equation so that the equation reads $\eta_c = \dfrac{\pi_S^{N(\gamma-1)/\gamma} - 1}{\left[1 + \left(\dfrac{1}{\eta_S}\right)\left(\pi_S^{(\gamma-1)/\gamma} - 1\right)\right]^N - 1}$

Page 359, Equation (6-19), Correct numerator so that the equation reads $\eta_t = \dfrac{1 - \prod\limits_{j=1}^{N}\left[1 - \eta_{sj}\left\{1 - \pi_{sj}^{(\gamma-1)/\gamma}\right\}\right]}{1 - \pi_t^{(\gamma-1)/\gamma}}$

Page 359, Equation (6-20), Correct numerator so that the equation reads $\eta_t = \dfrac{1 - \left[1 - \eta_s\left\{1 - \pi_s^{(\gamma-1)/\gamma}\right\}\right]^N}{1 - \pi_t^{(\gamma-1)/\gamma}}$

Page 360, Equation 6-23 should be corrected to read $\eta_t = \dfrac{1 - \pi_t^{(\gamma-1)e_t/\gamma}}{1 - \pi_t^{(\gamma-1)/\gamma}}$

Page 362, Table 6-1, the equation for π_c in the "**Actual Behavior**" column of the compressor section should not have a minus sign in the exponent between the e_c and γ_c; it should read $\tau_c = \left(\pi_c\right)^{(\gamma_c-1)/(\gamma_c e_c)}$

Page 362, Table 6-1, the equation for π_t in the "**Actual Behavior**" column of the turbine section should have a closed bracket at the end of the exponent; it should read $\pi_t = \tau_t^{\gamma_t/[(\gamma_t-1)e_t]}$

Page 379, Figure 7-3a, Correct numbers on horizontal axis to start from "0" and end at "40"

Page 379, Figure 7-3b, y-axis numbers should begin with 0.8 and end with 2.2 in increments of 0.2.

Page 380, Figure 7-3c, Correct origin of horizontal axis to "0"

Page 380, Figure 7-3d, Label thermal efficiency line that has a value greater than 60% and goes towards zero for higher pressure ratio with "3" and label the other unlabeled thermal efficiency line with "1"

Page 382, Figure 7-4c, y-axis should be labeled "f", not "S".

Page 384-85, Paragraphs 3, 4, and 5 are continuation of Example 7-3. Change the large font of these paragraphs to match that of Example 7-3.

Page 384, 3rd line from the bottom, Insert the word "thrust" between the words "the" and "specific"

Page 384, Figure 7-6, Change the numbers on the vertical axis from "1.0" and "1.2" to "1.2" and "1.3"

Page 385, First line, Insert the word "thrust" between the words "and" and "specific"

Page 392, Figure 7-12, Right hand T-s diagram, Correct subscripts of Temperatures on vertical axis from "t5" and "t9" to "t13" and "t19", respectively

Page 394, Equation (7-41b), Correct the subscript of pressure in the denominator of the right side of the equation from "0" to "9"

Page 394, Equation (7-43), Correct numerator by adding a minus sign after first variable so that it reads the same as Equation (7-10)

Page 396, Equation (7-52q), Correct the subscript of the polytropic efficiency from "c" to "t"

Page 399, Line seven - calculation of turbine pressure ratio, Correct the subscript of the polytropic efficiency from "c" to "t"

Page 400, Calculation of propulsive efficiency on fourth line, Correct the value of velocity ratio V_9/a_0 from "2.437" to "2.427" once in the numerator and once in the denominator. Correct the resultant propulsive efficiency value from "74.65%" to "66.27%"

Page 400, Calculation of overall efficiency on seventh line, Correct the value of propulsive efficiency from "0.7465" to "0.6627" and correct the resultant overall efficiency value from "30.60%" to "27.16%"

Page 400, Calculation of propulsive efficiency on fourth line, correct the value of V_{19}/a_0 in the numerator from 1.86 to 1.186.

Page 401, Figure 7-13c - Change the numbers on the vertical axis from "1.2" through "1.8" to "15" through "50" in increments of 5

Page 406, in the 2 equations below (ii), the denominator should have $2/(\gamma_c-1)$, not $(\gamma_c-1)/2$.

Page 415, Equation 7-67u, change the subscript "c" in the denominator of the exponent to "t"

Page 416, Figure 7-20, change the units on "S" on the right vertical axis from [lbf/(lbm/sec)] to [(lbm/hr)/lbf]

Page 416, Figure 7-20, label the fan pressure ratio on the dashed and solid curves. The upper dashed curve should be $\pi_f = 3$, the next one down, 3.5, the next one down, 4, the lowest one, 4.5; the upper solid curve should be $\pi_f = 4.5$, the next one down, 4, the next one down, 3.5, the lowest one, 3.

Page 419, Equation 7-69, the exponent on the quantity in the denominator should be $\gamma_6/(\gamma_6-1)$ instead of $\gamma_6/(\gamma_{16}-1)$

Page 420, Equation 7-73b, the numerator should be $R_6 + \alpha' R_{16}$

Page 425, List of INPUTS, Add "M6"

Page 430, Figure 7-26, the x-axis needs to read 10 to 40 in increments of 5.

Page 431, Fig. 7-28 - Interchange the labels for the two dashed line

Page 431, 12th line - Correct "Figs. 5-40 through 5-44" to "Figs. 5-37 through 5-39"

Page 440, Equation (7-114h), change 0.0075 to 0.075

Page 457, Problem 7-27, First equation - Correct power of last term in denominator to the following

$$\left(\tau_f\right)_i^{\left[(\gamma_t-1)/(\gamma_c-1)\right]\left(\gamma_c/\gamma_t\right)e_t e_f -1}$$

Page 462, 2nd line of text, change "pressure atio" to "pressure ratio"

Page 466, Figure 8-2 - Change y-axis label "40" to "46"

Page 466, Equation (8-3), the area Ai needs to be included in denominator of second part of relationship to read

$$\frac{\dot{m}_{ci}}{A_i} = \frac{\dot{m}_{ci}\sqrt{T_{ti}}}{A_i P_{ti}}\frac{P_{ref}}{\sqrt{T_{ref}}} = \frac{P_{ref}}{\sqrt{T_{ref}}} MFP\left(M_i\right)$$

Page 470, Figure 8-5a, y-axis should be $1/\pi_t = P_{t4}/P_{t5}$

Page 471, Figure 8-5b, x-axis should be $1/\pi_t = P_{t4}/P_{t5}$

Page 471, Figure 8-5c, y-axis should be $1/\pi_t = P_{t4}/P_{t5}$

Page 474, equations (i) are two separate equations, one for $\dot{m}_4$ and one for $\dot{m}_8$.   ++

Page 474, equations (i), (8-12a), and the one before (8-12a), need a $\sqrt{g_c}$ in the numerator

Page 475, Figure 8-7a - Change argument of MFP to M_8 in two places

Page 482, equation after equation I, Correct equation to read $\tau_c - 1 = \dfrac{\pi_c^{(\gamma_c-1)/\gamma_c} - 1}{\eta_c}$

Page 482, equation ii, Correct equation to read $\dfrac{\pi_c^{(\gamma_c-1)/\gamma_c} - 1}{N_{c2}^2} = \dfrac{\eta_c K_1}{T_{ref}} = \dfrac{\pi_{cR}^{(\gamma_c-1)/\gamma_c} - 1}{N_{c2R}^2}$

Page 486, Figure 8-15 – Change label to right of "0.2" on y-axis to $\dfrac{\dot{m}_{fc}}{\dot{m}_{fcR}}$

Page 486, second equation, Correct to read $\dot{m}_f = \dfrac{P_{t2}}{P_{t2R}} \sqrt{\dfrac{T_{t2}}{T_{t2R}}} \dfrac{\dot{m}_{fc}}{\dot{m}_{fcR}} \dot{m}_{fcR}$

Page 489, line after equation (ii), Change $\pi_n = P_{t9}/P_{t9}$ to $\pi_n = P_{t9}/P_{t7}$

Page 491, Equation (8-32q), Correct exponent in Pressure Ratio term to read $(\gamma_t-1)/\gamma_t$

Page 491, Equation (8-32r), Correct equation to read $\dfrac{T_9}{T_0} = \dfrac{T_{t4}\tau_t}{\left(P_{t9}/P_9\right)^{(\gamma_t-1)/\gamma_t} T_0}$

Page 491, Equation (8-32s), Change $\dfrac{V_0}{a_0}$ to $\dfrac{V_9}{a_0}$

Page 491, Equation (8-32y), Change η_P to η_O such that, $\eta_O = \eta_P\eta_T$

Page 492, Last equation on page, Correct to read $\pi_c = \left[1+\eta_c\left(\tau_c-1\right)\right]^{\gamma_c/(\gamma_c-1)}$

Page 493, 2nd to last equation, Correct to read $\dfrac{N}{N_R} = \sqrt{\dfrac{T_0\tau_r}{T_{0R}\tau_{rR}} \dfrac{\pi_c^{(\gamma_c-1)/\gamma_c} - 1}{\pi_{cR}^{(\gamma_c-1)/\gamma_c} - 1}}$

Page 493, last equation, Correct to read $\dfrac{\dot{m}_{c2}}{\dot{m}_{c2R}} = \dfrac{\pi_c}{\pi_{cR}} \sqrt{\dfrac{\left(T_{t4}/T_{t2}\right)_R}{T_{t4}/T_{t2}}}$

Page 497, Figure 8-21 the y-axis label should be changed to $\dot{m}_{c2}$

Page 499, Equation (8-33b), correct T_{SL} to T_{ref}

Page 500, item #3 in the first list should refer to Fig. 8-25 instead of Fig. 8-15.

Page 505, Figure 8-32, Change label of vertical axis to read F/δ_0 (lbf)

Page 506, Second equation, Interchange subscripts "4" and "4.5" in both numerator and denominator

Page 507, First equation, Change equation to read $\dfrac{P_{t4.5}/P_{t5}}{\sqrt{T_{t4.5}/T_{t8}}} \dfrac{1}{MFP(M_8)} = \dfrac{\sqrt{\tau_{tL}}/\pi_{tL}}{MFP(M_8)} = \dfrac{A_8\pi_{AB}}{A_{4.5}MFP(M_{4.5})}$

Page 508, Right side of last equation, Change subscripts "l" to "L"

Page 510, Fourth line from top of page: Throttle Setting: Change τ_{t4R} to T_{t4R}

Page 510, Equation (8-45i), Correct to read $\pi_d = \pi_{dmax}\eta_r$

Page 511, Equation (8-45t), Correct to read $f_{AB} = \dfrac{\tau_{\lambda AB} - \tau_\lambda \tau_{tH} \tau_{tL}}{h_{PR}\eta_{AB}/(c_{pc}T_0) - \tau_{\lambda AB}}$

Page 511, Equation (8-45u), Change "$\pi_t \pi_d$" to "$\pi_r \pi_d$" ++

Page 511, Equation (8-45w), correct exponent in denominator to read $(\gamma_{AB}-1)/\gamma_{AB}$

Page 511, Equation (8-45ac), correct equation to read $\eta_T = \dfrac{a_0^2\left[(1+f_O)(V_9/a_0)^2 - M_0^2\right]}{2g_c f_O h_{PR}}$

Page 521, Equation (8-46) - Change last term in denominator to read $MFP(M_{19R})$

Page 521, last equation on page, correct right-hand side of equation to read $\dot{m}_{2.5}c_{pc}\left(T_{t3} - T_{t2.5}\right)$

Page 522, Equation (8-50), Change term in denominator from $(1+\ \tau_{tL})_R$, to $(1 - \tau_{tL})_R$

Page 522, Equation (8-51), Correct to read: $\pi_f = \left[1 + \left(\tau_f - 1\right)\eta_f\right]^{\gamma_c/(\gamma_c-1)}$

Page 523, Equation (vi), Change M_{10} to M_{19}. ++

Page 523, Equation (xi), Change the denominator from $(1+\ \tau_{tL})_R$, to $(1 - \tau_{tL})_R$

Page 526, Equation (8-52ad), Correct term in numerator on first line of the equation, T_9/t_0, to read T_9/T_0

Page 526, Equation (8-52ai), Correct numerator in thermal efficiency equation to read

$$a_0^2\left[(1+f)(V_9/a_0)^2 + \alpha(V_{19}/a_0)^2 - (1+\alpha)M_0^2\right]$$

Page 527, equation for π_{cH} in middle of page, change to read $\pi_{cH} = \left[1 + \left(\tau_{cH} - 1\right)\eta_{cH}\right]^{\gamma_c/(\gamma_c-1)}$

Page 527, Change answer for π_{cH} in middle of page from 15.286 to 15.322

Page 527, equation for P_{t9}/P_0 in last 1/3 of page, change π_{th} to π_{tH}

Page 528, last equation on page, change term in numerator from $\tau_t R_t T_9$ to $\gamma_t R_t T_9$

Page 535, Figure 8-56, Change x-axis label to read T_{t4} (K)

Page 539, 2nd equation under the "Solution Scheme," change $\pi_{cH} = f_2(\tau_{ch})$ to $\pi_{cH} = f_2(\tau_{cH})$

Page 540, Equation 8-57g, Change term in P_{t9}/P_0 equation from π_{th} to π_{tH}

Page 540, last line on page, change m_{9R} to M_{9R}

Page 543, Line below Equation (8-36) - change "Eq. (7-17)" to "Eq. (7-71)"

Page 544, Equation (8-59), Correct the power of the right hand side so that the equation reads $\pi_{tL} = \left(1 - \dfrac{1-\tau_{tL}}{\eta_{tL}}\right)^{\gamma_t/\gamma_t-1}$

Page 545, Equation (8-61), Change subscript "r" to "R" in numerator

Page 548, Under Equation (8-67), Change "A_9" to "A_8"

Page 552, Equation (8-70u), Correct the power of the right hand side so that the equation reads $\pi_{tL} = \left(1 - \dfrac{1-\tau_{tL}}{\eta_{tL}}\right)^{\gamma_t/\gamma_t - 1}$

Page 556, Eq. (8-70bo), left side of equal sign, Change subscript to "HP spool"

Page 558, the x-axis in Figure 8-64 should have the far right number changed from 1000 to 100.

Page 569, Reference Data - Change specific thrust value from "9260" to "9620"

Page 574, Figure 8-77, Add subscript "t" to "h" in third line of text in top box

Page 574, Figure 8-77, Replace minus sign with equal sign in box to left of "Yes"

Page 578, First equation, Replace subscript "3" with "4" in numerator

Page 579, First equation, Change second "T_{t4}" to "$T_{t4.5}$"

Page 579, Figure 8-80, Second box, Third line, Replace "MFP_4" in denominator with "MFP_5"

Page 583, Figure 8-82b - Change label of horizontal axis to "A_8/A_{8R}"

Page 591, Figure 8-87 - Change label inside first diamond from "Is $MFP_{error} > 0.0001$?" to "Is $M_i > 1$?

Page 595, sixth line, Change "MASSFT" to "MASSFP"

Page 595, Equation (8-97ah), Change second subscript "tH" to "tL"

Page 617, Equation above Equation (9-4), Remove second equal sign

Page 618, Figure 9-2, Correct title to "Axial-flow compressor; (a) rotor with blades, (b) case with stators, and (c) compressor assembly (Ref. 46)   ++

Page 626, in the "*Note*:" for Example 9-1, $c_p g_c$ should be 6006 ft^2/(sec^2·ºR)

Page 627, T_{t1R} should be 522.2ºR, not 552.1ºR

Page 632, Figure 9-16, Change Mach number label of upper curve to "0.8"

Page 632, Figure 9-16, Change label for upper curve to $M_i = 0.8$

Page 637, Top Equation, Change numerator of left term to P_{t2R}

Page 638, Equation (9-31) and equation above, Change $\cos \beta_2$ to $\cos \alpha_1$

Page 640, Sixth line from bottom, Correct denominator from "$1 + \left[(\gamma - 1)/1\right] M_3^2$" to "$1 + \left[(\gamma - 1)/2\right] M_3^2$"   ++

Page 654, Under Equation (i), Change numerator in Gibb's equation from "dp" to "dP"

Page 654, Equation (ii), Change numerator from "dh" to "dP"

Page 659, Figure 9-32, Add "(Reprinted by permission of Addison Wesley Longman Limited, London)" to figure title

Page 667, Table 9-7b, Change "v_1" to "V_1" and change α_1 value of "26.0" to "36.0"

Page 668, Table 9-8b, Change the chord of stage #1 rotor blade to 3.362

Page 668, Table 9-8b, Change the number of rotor blades for stages #1 through #8 to 33, 43, 56, 70, 86, 103, 122, and 143, respectively

Page 668, Table 9-8b, Change the number of stator blades for stages #1 through #8 to 38, 49, 63, 77, 94, 112, 132, and 154, respectively

Page 669, Table 9-8c, Change the number of rotor blades for stages #1 through #8 to 33, 43, 53, 58, 62, 67, 72, and 76, respectively

Page 669, Table 9-8c, Change the number of stator blades for stages 1 through 8 to 38, 49, 63, 66, 71, 75, 80, and 85, respectively

Page 679, Figure 9-45, Change label of top curve from "0.40" to "0.90"

Page 687, 4th equation from the bottom of page, change to read $V_{3R} = \sqrt{u_3^2 + v_{3R}^2}$ ++

Page 696, in the middle of the 1st paragraph, change "therfore" to "therefore"

Page 697, Figure 9-61, Correct figure title to "Zero-exit-swirl turbine" ++

Page 698, Figure 9-62, Change second term in definition of exit deviation from "γ_e" to "α_e" and "chamber" to "camber"

Page 702, Figure 9-65, Change horizontal axis label to read "% axial chord"

Page 704, Middle of page, Change Equation number "(9-44)" to "(9-45)"

Page 720, Equation (9-114) - Change minus sign within the parenthesis to a plus sign

Page 725, Figure 9-74, the 3rd and 4th values for α_2 from the top should be 70° and 50°, respectively

Page 725, Figure 9-75, the 3rd and 4th values for α_2 from the top should be 70° and 50°, respectively

Page 741, 8th line, Change P_{t5}/P_{t4} to P_{t4}/P_{t5}

Page 741, Figure 9-86, Correct P_{t5}/P_{t4} on vertical axis to P_{t4}/P_{t5} and "Chocked" to "Choked"

Page 742, Figure 9-87, Correct P_{t5}/P_{t4} on vertical axis to P_{t4}/P_{t5}

Page 742, 2nd line of text, Change "asa" to "as a"

Page 750, Problem 9-7, Correct "$\omega = 1200$ rad/sec" to "$\omega = 800$ rad/sec" ++

Page 750, Problem 9-8, Correct flow angles in second line from "45" to "42" and loss coefficient on third line from "0.05" to "0.12"

Page 750, Problem 9-11, Change units of mass flow rate from "lbm/sec" to "kg/sec" ++

Page 766, Figure 10-12, Correct top label of vertical axis from "40" to "30"

Page 781, Figure 10-31, Change "F-48" to "F-4D"

Page 782, Equation (6-6) for the $M_0 > 5$ condition, denominator should be: $M_0^4 + 935$

Page 786, Figure 10-38, the shock location for a supercritical inlet should be just downstream of the throat (inside the inlet) with the oblique shocks slanted more toward the inlet lip similar to Figure 10-36

Page 788, Figure 10-40, Change "Chocked" to "Choked"

Page 810, Second to last paragraph, second line. Change P_{t8}/P_{t0} to P_{t8}/P_0

Page 821, 2nd equation from the top of the page, the exponent for P_{t3} should be $1/\gamma_c$

Page 821, Equation (10-31) exponent on P_{t3} should be $(\gamma_c-1)/\gamma_c$

Page 822, Figure 10-71, the V_i on the right side of the figure should be changed to V_e

Page 823, The denominator of the right hand side of Equation 10-35 should read $\gamma_e\left[1+\gamma_i M_i^2\left(1-\dfrac{C_D}{2}\right)\right]^2 T_{ti}$

Page 823, The denominator of the right hand side of Equation 10-36 should read $1-2\gamma_e\Phi+\sqrt{1-2(\gamma_e+1)\Phi}$

Page 823, The numerator of the right hand side of Equation 10-38 should read $P_e\left\{1+\left[(\gamma_e-1)/2\right]M_e^2\right\}^{\frac{\gamma_e}{(\gamma_e-1)}}$

Page 824, Figure 10-72 - Change "0.88" on y-axis to "0.8"

Page 826, across the 1st line of Table 10-6, change 10.18 to 0.18, 10.003 to 0.003, and 10.007 to 0.007

Page 833, Figure 10-80, Remove the "450" near the value of 95 on the vertical axis

Page 836, Figure 10-82, the top pressure line should be $P = 0.2$ atm, not $P = 2.0$ atm and middle temperature line should be 400 K not 4400 K

Page 837, 3rd line of 2nd to last paragraph, change L_{bm}/H_d to L_{mb}/H_d

Page 845, Table 10-7, Change column heading to "$B = d/H$"

Page 845, table 10-7, Change first number in W/d column for "$\alpha = 15°$" from 1.6 to 2.6

Page 846, example 10-10, Change *Given: T* from "100°R" to "1000°R"; The value of t_c should be 1.017 msec instead of 1.3 msec. This t_c will give $V_{1c} = 983.3$ ft/sec instead of 770 ft/sec

Page 847, the first paragraph under "Total Pressure Loss," second to last line refers to Fig 10-87. This reference should be changed to Fig 10-88.

Page 862, Table B-2, For TF41-A-1B, Correct value of TIT to 2,165

Page 863, Column labeled "Airflow", Change decimal point to comma in seven places

Page 866, Table C-1, Change symbol beside RL10A-4 to a dagger

Page 902, The denominator for equation G-2 should be $\left[1+\dfrac{\gamma-1}{2}(M_1\sin\beta)^2\right]\left[\dfrac{2\gamma}{\gamma-1}(M_1\sin\beta)-1\right]$

Page 902, The numerator for equation G-3 should be $\left[1+\dfrac{\gamma-1}{2}(M_1\sin\beta)^2\right]\left[\dfrac{2\gamma}{\gamma-1}(M_1\sin\beta)-1\right]$

Page 904 & 905, At the top of Table G-1, the flow turning angle for column 5 should be 8.0, instead of 8.10.

Page 910, The denominator for the second equation should be changed from $\left(1+\gamma N^{2}\right)^{2}$ to $\left(1+\gamma M^{2}\right)^{2}$

Page 926, Figure J-2, The blade hub area should be designated A_h instead of A_b

Page 929, Equation (J-9) – Correct to read $\bar{\sigma}_{blades} = \dfrac{\sigma_c n_b A_h}{2\pi r_h W_r}$

Page 929, The second term in the equation at the bottom of the page, Change to read $\rho\omega^{2} h_r W_r (r_r + h_r/2)^2 d\theta$ ++

Page 930, Table J-2, last line in the table should be changed to read $\rho(\omega r_r)^2 / \sigma_r$

Page 930, Equation (J-10), the middle term on the right-hand side should be changed to read $\dfrac{\rho(\omega r_r)^2}{\sigma_r}\left(1+\dfrac{h_r}{2r_r}\right)^2$