ERRATA AND ADDITIONS FOR "ENGINEERING NOISE CONTROL"
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p xi, Change “Noise Reduction Index (NRI)” to “Noise Reduction Coefficient (NRC)”

p xv, change “FWHA” to “FHWA”

p xviii In line 19, change “Noise Reduction Index” to “Noise Reduction Coefficient”

p16, In line 3, change the equation to $(1/hf)\sqrt{E/\rho} > 2$

p16, line 10, change $D_P = 1.346E$ to $D_P = 1.099E$

p16, Change Eq. (1.3) to

$$D_C = \frac{D_F}{1 + \frac{D_F}{E_W}\left(\frac{2R}{t} + \frac{\rho_w}{\rho}v^2\right)}$$

p18, In Eq. (1.5), change “332” to “331”

p27, Change Eq. 1.40a to $\varphi = \frac{f(k(ct \pm r))}{r}$

p29, 3 lines above Eq, (1.50), change “1.36” to “1.41”

p34, Change the reference just above Eq. (1.69) to “Fahy, 1995”

p34, First line under Eq. (1.67), change “1.65” to “1.64”

p41, 4 lines above Section 1.10.1, replace “pet” with “per”

p45, 2 lines under Eq. (1.89) and in Eq. (1.90), remove the subscript, “ t ” from p_t.

p51, Table 1.3, line 3, replace “U ” with “u”

p51, Table 1.3, line 5, replace “Z_d ” with “Z_A ”

p51, Heading 1.12.2, replace “Z ” with “Z_s”

p72, line immediately below the figure, add “is the” after the word, “ordinate”

p76, Line 13, change “sound” to “sounds”

p87, 2 lines above Example 2.1, the text should read, “Figure 2.10(b) is an alternative representation of Figure 2.10(a)”

p111, line 4, change “1252” to “61252”.

p134, 3rd line, replace H with H'

p142, The number “3" and “0.3" should be replaced by “3.01" and “0.301" respectively in Equations (4.37) to (4.41) inclusive

p143, Replace equation 4.43 and the 2 lines preceding it with:
The daily noise dose (*DND*), or “noise exposure”, is defined as equal to 8 hours divided by the allowed exposure time, T_a with L_B set equal to 90. That is:

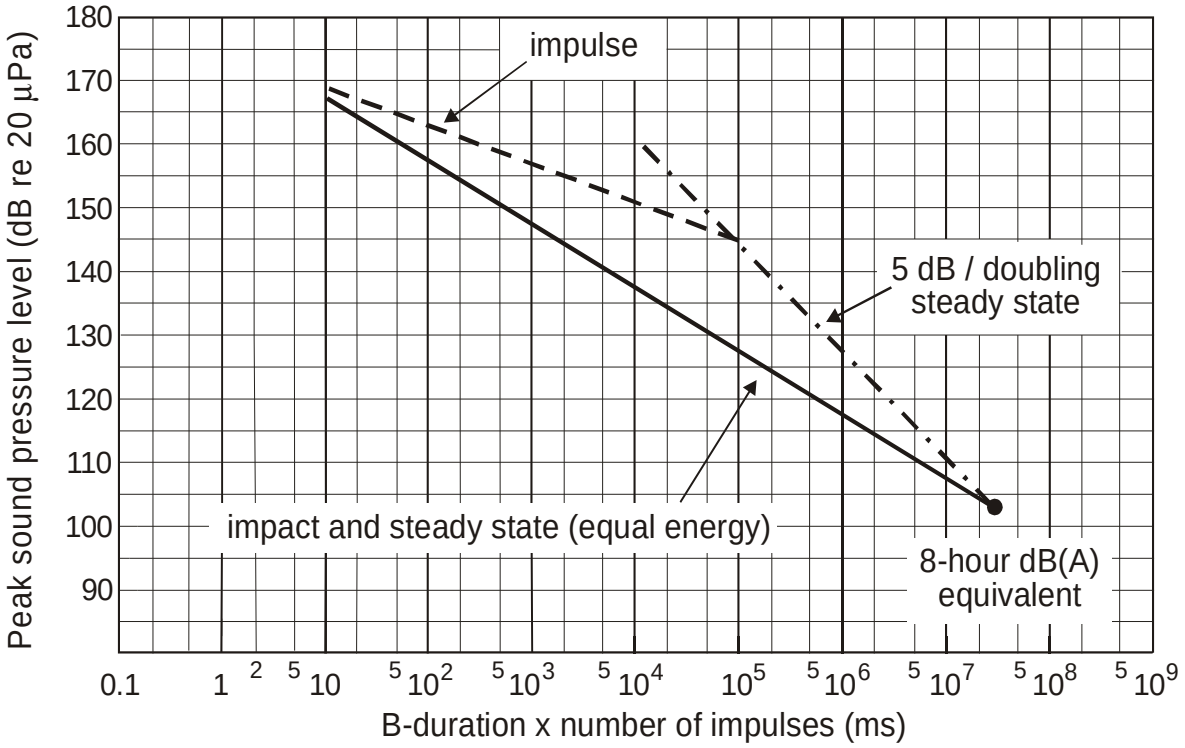
$$M_f = j(k_f/\omega - \omega m_f)^{-1}$$

p143, Replace the sentence following equation (4.42) with: “If the number of hours of exposure is different to 8, then to find the actual allowed exposure time to the given noise environment, the “8” in Equation (4.42) is replaced by the actual number of hours of exposure.”

p144, 3rd equation down should be:

$$T_a = 8 \times 2^{-(91.2 - 90.0)/3} = 8/2^{0.39} = 6.1 \text{ hours}$$

p147, Replace Figure 4.6 with the more accurate figure below.



p147, 4 lines under Figure 4.6, change “1414” to “1474”.

p149, 5th and 6th lines from the top, change “645” to “60645” in four places.

p150, 13 lines from the bottom, change Figure 4.6 to Figure 4.7.

p153, First line after the headings in Table 4.6, change “0.06” to “0.6”.

p157, Fig 4.9 caption, add “MAF” = minimum audible field.

p160, On y-axis, change label from “dB re 20 mPa” to “dB re 20 μPa”

p165, First paragraph in section 4.9, replace “1995” with “1995, 1999”.

p176, Line above Eq. (5.6), change “r” to “$r = a$”

p176, In Eq (5.6), change “r” to “a”

p177, In Eq. (5.7), change “r” to “a”

p179, 2 lines under figure 5.2, replace “(x,y)” with “O” and label the observer as O in Figure 5.2

p192, 2 lines above Eq. (5.71), add “each of which has a radius of a_i” immediately after “sources”

p192, 2 lines above Eq. (5.72), change “a” to “a_i”

p192, Line above Eq. (5.72), change “ka” to “ka_i”

p192, In Eq. (5.72), change “a” to “a_i” in 5 places

p192 Eq. 5.71 and below, change Q to $\bar{Q}$ in 4 places

p192 last line add "amplitude" immediately after "velocity"

p193 Eq 5.73 and below change Q to $\bar{Q}$ in 2 places

p225, In Table 5.3 caption, change “Sutherland et al., 1974” to “Sutherland and Bass, 1979”

p226, 13 lines above Eq. (5.171), change “2613” to “9613”.

p226, Paragraph beginning “Note that ISO” only applies to overall A-Weighted calculations and should be deleted here. The paragraph following this one should also be deleted as the meteorological effects should not be taken into account in two separate places - either they should be included in the barrier calculations or calculated separately but not both.

p229, Interchange the 63 Hz and 2000 Hz labels on the curves in Fig. 5.19.

p232, Eq. 5.181, change "-0.09" to "-0.9"

p236, In Eq. (5.188) change “10.3” to “10.0”

p241, Table 5.9, -3.0<v<+0.5 should be replaced with -3.0<v<-0.5

p244, ISO 9613-2 procedures for calculating ground effects and shielding effects are based on an assumption of downwind propagation from the sound source to the receiver. Thus the only correction term (Equation (5.193)) that is offered by ISO for meteorological effects is a term to reduce the A-weighted calculated sound pressure level for long time averages of several months to a year. Thus section 5.11.12.4 should be deleted and replaced with the paragraph above.

p251, In Figure 6.1, in the centre on the right hand side replace $\gamma = 1/\kappa$ with $\gamma = \kappa$

p253, 2 lines above section 6.6, change “1989” to “1995”.

p259, The equation numbered “6.12” should be numbered “6.11”

p264, The equation numbered “6.25” should be numbered “6.24”

p264, 2 lines below Eq. 6.20, replace S_1 with $1/S_1$

p264, 3 lines below Eq. 6.20, replace S_2 with $1/S_2$

p267, The first equation should be numbered “6.26”

p267, In Fig 6.3, there are two curves labelled "4". The lower curve should be labelled "5"

p292, 3 lines above Eq. 7.52, change $\langle p_k^2(t)\rangle$ to $\langle p_k^2(0)\rangle$and add “at time t=0” after “mode k”

p292, 2 lines above Eq. 7.52, change $\langle p_k^2(t)\rangle$ to $\langle p_k^2(0)\rangle$

p292, In Eq. 7.52, change $\langle p_k^2(t)\rangle$ to $\langle p_k^2(0)\rangle$

p293, 3 lines above Eq. 7.55, change p_k to $p_k(0)$

p293 6 lines from the bottom, there should be a minus sign before $\log_e$

p294, 5 lines from the bottom, change (2000) to (2001)

p294, Eq. (7.59), replace $\frac{0.16V}{S}$ with $\frac{0.16V}{S^2}$

p295, Eq. (7.64), multiply each of the three terms in brackets by -1

p295, 2 lines beneath Eq. (7.62), add “energy” before “reflection”

p295, 2 lines above Equation (7.64), change “2001” to “2000”

p296, lines 2 and 3, change “S_x, S_x and S_x” to , “S_x, S_y and S_z”

p301, In each of the top two lines of the table, add “(m^2)” after $S\overline{\alpha}$

p303, Section 7.7.2, change “NRI” to “NRC” in three places and change “Noise Reduction Index” to “Noise Reduction Coefficient” in two places. Also change Eq. 7.76 to:

$$NRC = \frac{\left(\overline{\alpha}_{250} + \overline{\alpha}_{500} + \overline{\alpha}_{1000} + \overline{\alpha}_{2000}\right)}{4} \qquad (7.76)$$

p303, 2 lines from bottom, change “20 mm” to “20 μm”

p304, Caption of Figure 7.6, line 1, change “porous surface” to “rigidly backed porous material” and in the last line, change “L” to ℓ

p310, Immediately following Equation (7.88), add the following: “Note that for square, clamped-edge panels, the fundamental resonance frequency is 1.83 times that calculated using Equation (8.21). For panels with aspect ratios of 1.5, 2, 3, 6, 8 and 10 the factors are 1.89, 1.99, 2.11, 2.23, 2.25 and 2.26 respectively.”

p310, Equation 7.85 should be: $\xi_c = \left(\frac{f}{f_c}\right)^{1/2}$

p311, End of second full paragraph, change “Elbert” to “Elfert”

p329, Eq. (7.122), replace T_{60u} with $\frac{1}{T_{60u}}$

p330, 10th line, change “2000” to “2001”

p339, 12th line from the bottom, change “1973” to “1988”

p343, 5 lines above the figure, change “ASTM E90-66T” to “ASTM E413-87”

p347, replace the line immediately above section 8.2.4 and the last word in the line above that with “contour value at 2000 Hz is increased by 1 dB.” and add “Note that *IIC,* R_w and *STC* values are all reported as integers.”

p352, 3 lines under Equation (8.36), change “below” to “above”.

p353, change x-axis label to f (Hz) (log scale)”

p354, 2nd and 3rd lines from the bottom, replace “8.37” with “8.38”

p355, 2nd line after Eq. 8.44, replace $f_{c2}/2$ with $f_{c1}/2$

p355, 3rd line, replace “8.37” with “8.38”

p359, In Eq. 8.50, replace $10 \log_{10} m_1$ with $20 \log_{10} m_1$

p360, change x-axis label to “frequency (Hz) (log scale)”

p360, on the x-axis of the figure, change "0.5 f_{c2}" to "0.5 f_{c1}"

p360, first line of item (b) in the caption, change to "Line–point support (f_{c2} is the critical frequency of the point supported panel)"

p360, Under "Point B", item (a), replace "$30\log_{10} f_{c2}$" with "$20\log_{10} f_{c1} + 10\log_{10} f_{c2}$"

p360, Under "Point B", items (b) and (c), replace "$40\log_{10} f_{c2}$" with "$20\log_{10} f_{c1} + 20\log_{10} f_{c2}$"

p360, Eq (a) under "Point C", add the term, "$20 \log_{10} (f_{c2} / f_{c1})$" to the RHS of the equation

p360, last Eqn., change f_1 to f_ℓ

p361, replace Eq. 8.55 with:

$$D = \begin{cases} \dfrac{2}{h} & \text{if } f < 0.9 \times f_{c1} \\ \dfrac{\pi f_{c1}}{8 f \eta_1 \eta_2} \sqrt{\dfrac{f_{c2}}{f}} & \text{if } f > 0.9 \times f_{c1} \end{cases}$$

$$h = \left[1 - \left(\frac{f}{f_{c1}}\right)^2\right]^2 \left[1 - \left(\frac{f}{f_{c2}}\right)^2\right]^2$$

p363, 6 lines from the bottom of the page, change the equation to:

$$20 + 20\log_{10}(2500/100) - 6 = 42.0 \text{ dB}$$

p363, 4 lines from the bottom of the page, change "77" to "78" and "61" to "60" in 2 places

p363, last line, change "61" to "60" and "52" to "51"

p365, Section 8.2.6.2, 5 lines down, replace the sentence beginning with "Alternatively" with the following: "This mechanism can be considered to approximately double the loss factor of the base panels. Alternatively, the panels could be connected together with a layer of visco-elastic material to give a loss factor of about 0.2."

p365, Section 8.2.6.2, 9 lines down, after the words "(0.3 to 0.6 m)", add the words, "or connected with a layer of visco-elastic material or even nailed together".

p371, In the 500 Hz column, 7th number from the bottom, replace S1" with "51"

p379, 2 lines above "Example 8.4", change "Example 8.7" to "Example 8.8"

p380, replace the example table with the following table.

	Octave band centre frequency (Hz)							
	63	125	250	500	1000	2000	4000	8000
TL from Table 8.2	30	36	37	40	46	54	57	59
$\overline{\alpha}_w$ from Table 7.1	0.013	0.013	0.015	0.02	0.03	0.04	0.05	0.06
$\overline{\alpha}_f$ from Table 7.1	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.03
$S_i\overline{\alpha}$ (m)	0.463	0.463	0.525	0.68	1.05	1.36	1.67	2.04
$S_E/S_i\overline{\alpha}_i$	67	67	59	45.6	29.5	22.8	18.6	15.2
$10\log_{10}(S_E/S_i\overline{\alpha}_i)$	18	18	18	17	15	14	13	12
NR (dB)	12	18	19	23	31	40	44	47

p381, 3rd line down, Equation (8.75) should be (8.65), 6 lines down Equation (8.76) should be (8.66) and 8 lines down, Equation (8.6), should be (8.65).

p381, 4th Eq. in section 3, "30.5/30" should be "30.5/31"

p391, At the end of the paragraph above the figure, add the following sentences. "When paths involving the ground reflected wave on the source side are considered, the straight line distance, *d*, used in Equation (8.85) is the distance between the image source and the receiver. The same reasoning applies to paths involving ground reflections on the receiver side."

p394, 3 lines following Eq. 8.98, replace "barier" with "barrier".

p395, replace the four equations for A_b with the following in the same order

$$A_b = 15.8 + 20\log_{10}[5.8/4.5] = 18.0 \text{ dB};\ A_R = 1.3 \text{ dB};\ A_b + A_R = 19.3 \text{ dB}$$

$$A_b + A_R = 19.3 \text{ dB}$$

$$A_b = 19.8 + 20\log_{10}[7.2/4] = 24.9 \text{ dB};\ A_R = 2.6 \text{ dB};\ A_b + A_R = 27.5 \text{ dB}$$

$$A_b = 19.5 + 20\log_{10}[7.5/4.5] = 23.9 \text{ dB};\ A_R = 5 \text{ dB};\ A_b + A_R = 28.9 \text{ dB}$$

p395, 6 lines from the bottom, replace "4.6" with "4.7"

p395, Solution, item 1, last line, change "5.18" to "5.20".

p396, replace the two equations for A_b with the following in the same order.

$$A_b = 12.0 + 20\log_{10}[4.5/4] = 13.0 \text{ dB}$$

$$A_b = 19.8 + 20\log_{10}[7.2/4] = 24.9 \text{ dB}$$

p396, Item 3, lines 2 and 3, change the numbers to 19.3 dB, 19.3 dB, 27.5 dB, 28.9 dB, 28.9 dB, 13 dB, 24.9 dB and 24.9 dB

p396, Item 3, line 4, change "5.18" to "5.20".

p396, Item 3, line 4, change “10 dB” to “12 dB”

p399, Figure 8.19, replace *r* with *R*

p399, Replace Eq. (8.100) with:

$$\ell_s' = R\,\theta\cos\alpha$$

$$h_s' = H_b - R\,\theta\sin\alpha$$

$$\alpha = \frac{1}{2}(\pi - \theta) - \beta$$

$$\beta = \cos^{-1}(H_b/A)$$

$$\theta = \pm\cos^{-1}[1 - (A^2/2R^2)], \quad |R| > A/2$$

p400, 1st paragraph, change "Figure 8.12" to "Figure 8.14"

p401, Eq. (8.107) should be:

$$N = \pm\frac{2}{\lambda}\left\{\left[\left[\left(X_S^2 + (h_b - Z_S)^2\right)^{1/2} + \left(X_R^2 + (h_b - Z_R)^2\right)^{1/2} + b\right]^2 + Y^2\right]^{1/2} - d\right\}$$

p404, Figure 8.21 is missing (see following figure)

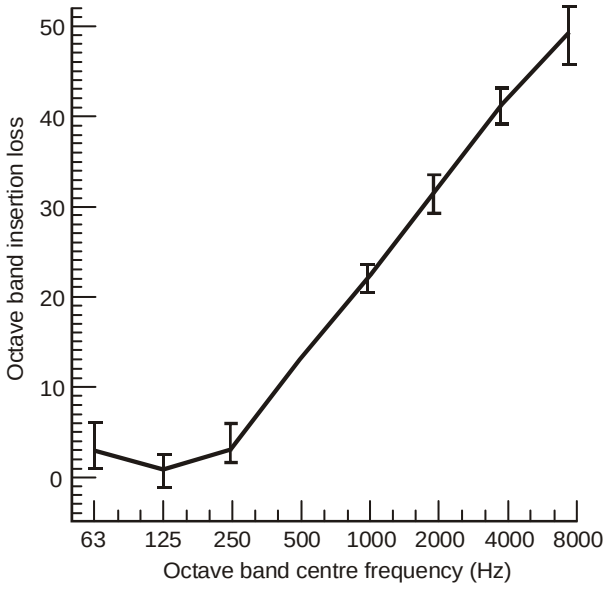


Figure 8.21 Typical pipe lagging insertion loss for 50 mm glass-fibre, density 70-90 kg/m^3, covered with a lead / aluminium jacket of surface density, 6 kg/m^2. The I symbols represent variations in measured values for three pipe diameters (75 mm, 150 mm and 360 mm).

p405, Replace Equations (8.116), (8.117) and (8.119) with the following:

curve no	$\frac{\sigma}{\rho h}$
1	0.01
2	0.1
3	0.5
4	1

$$X_c = [41.6(m/h)^{1/2}\xi_c(1 - 1/\xi_c)^{-1/4}(\sigma/\rho h)^{\xi_c})] \quad (8.116)$$

$$C_c = 0.232\xi_c \ell/h \quad (8.117)$$

$$X_m = [226(m/h)^{1/2}\xi_c(1 - \xi_c^2)] - [258h/(\ell\xi_c)] \quad (8.119)$$

p415, lines 6 and 7 under Eq 9.16, replace with, "the end correction. In this case, $\xi = 0$. For a"

p417, replace the text between Eqs. (9.25) and (9.26) with:
"An alternative expression for the effective length, which may give slightly better results than Equation (9.25), for grazing flow across the holes, and which only applies for flow speeds such that $u_\tau/(\omega d) > 0.03$, is (Dickey and Selamet, 2001)"

p429, Move Equation (9.52) up one line and remove the ":" after "by".

p432, Item 5, line 1, Replace "Equation (8.48)" with "Equation (9.52)"

p439, line following Equation (9.81), replace μ with f_m

p444, In Table 9.2, "19" should be "-19"

p453, 454, Replace the legend in the figures with

p459, Figure 9.21, x-axis label, change "*S*" to "*A*" and in the caption add "open" immediately before "duct".

p461, In the equation in the centre of the page, change "6" to "5"

p461, 4 lines below the equation in the middle of the page, change "5.5" to "7"

p461, 8 lines below the equation in the middle of the page, change "12.5" to "13"

p462, line 1, change "1.2" to "1.0"

p462, Figure 9.23 caption, last line, change "1992" to "1987"

p464, Replace Table 9.5 with the following:

Duct	Octave band centre frequency (Hz)

diameter (mm)	63	125	250	500	1000	2000
150	18(20)	13(14)	8(9)	4(5)	1(2)	0(1)
200	16(18)	11(12)	6(7)	2(3)	1(1)	0(0)
250	14(16)	9(11)	5(6)	2(2)	1(1)	0(0)
300	13(14)	8(9)	4(5)	1(2)	0(1)	0(0)
400	10(12)	6(7)	2(3)	1(1)	0(0)	0(0)
510	9(10)	5(6)	2(2)	1(1)	0(0)	0(0)
610	8(9)	4(5)	1(2)	0(1)	0(0)	0(0)
710	7(8)	3(4)	1(1)	0(0)	0(0)	0(0)
810	6(7)	2(3)	1(1)	0(0)	0(0)	0(0)
910	5(6)	2(3)	1(1)	0(0)	0(0)	0(0)
1220	4(5)	1(2)	0(1)	0(0)	0(0)	0(0)
1830	2(3)	1(1)	0(0)	0(0)	0(0)	0(0)

p470, Figure 9.27, caption, and Eq. (9.115), replace "D" with "d"

p471, Eq. (9.116) and (9.117) and 2 lines below Fig. 9.28, replace "D" with "d"

p476, 3rd and 6th line of the first paragraph, change “1979” to “1978”

p478, line above Equation (10.14), change “1979” to “1978”

p479, Figure 10.2, replace the lowest y-axis label (currently 0) with 0.02

p483, In Equation (10.18) and 2 lines above it, replace "e" with "q" to avoid confusion with the distance, e, between spring supports.

p484, In Figure 10.6, the force should be shown as acting on mass m_2, not mass m_1.

p485 In Eqs. (10.25a,b), the left hand side should be squared.

p487, line above Equation (10.31), change "1986" to "1988"

p487, Equation (10.45) should be:

$$M_f = j(k_f/\omega - \omega m_f)^{-1}$$

p495, Equation (10.42), remove the symbol "d" from the right hand side.

P496, Equation (10.48), replace "d" with $|F|/k_1$

p496, Equation (10.47), the numerator on the RHS should be $3(m_2/m_1)^3$

p498, 8 lines from the top of the page, change "1979" to "1978"

p513, Table 11.2, 3rd line in 2000 Hz column should be "25"

p513, Table 11.2, the 8000 Hz column should be replaced with 13, 15, 18, 27, 35, 35, 26, 32, 32, 34, 42 and 44 respectively and the BFI column for the two tubeaxial entries should be " 7 "

p513, Remove the paragraph containing Equation (11.2) and remove "(11.2)" in the second to bottom line.

p514, last Equation, label (11.2)

p515, Example 11.1 table, replace "30" with "36"

p517, Equation (11.10), change to: $L_w = 72 + 13.5\log_{10} kW$ (dB re 10^{-12} W)

p526, last line, change "8.8" to "8.3"

p528, replace the values in the table with the following.

0	72	77	80	81	80	76	69	63
60	74	79	82	83	82	78	71	65
120	61	66	69	70	69	65	58	52
180	55	60	63	64	63	59	52	46

p535, 4 lines above Eq.(11.33), and 2 lines after Eq. (11.34), change "534" to "60534".

p536, 4 lines from the bottom, change "534" to "60534".

p541, Following Eq. 11.64, insert the statement, “If the second term in brackets of Equation (11.64) exceeds 0.3, it is set equal to 0.3”.

p542, line 3, change “534” to “60534”.

p542, Immediately before Equation (11.67), add the following: “Note that the final spectrum levels must all be adjusted by adding or subtracting a constant decibel number so that when A-weighted and added together, the result is identical to the A-weighted overall levels form Equations (11.65) and (11.66).”

p543, 1 line and 4 lines above Eq. (11.70), change “534” to “60534”.

p544, Equation 11.73, second term on the right should have the “$\log_{10}$" removed and “17.27" replaced with “17.37", so it reads “- 17.37(.....)”

p544, Replace the last paragraph with, “The octave band external sound pressure levels may be calculated using Equations (11.73) and (11.76) with octave band sound power levels used in Equation (11.76) instead of overall sound power levels.”

p552, The constant in Equation (11.89) should be “55", not “53".

p558, Replace the paragraph following Table 11.29 with the following:
“The road surface or condition correction is taken as zero for either sealed roads at speeds above 75 km/hr or gravel roads. For speeds below 75 km/hr on impervious sealed roads, the correction is -1 dB. For pervious road surfaces, the correction is -3.5 dB. For concrete roads with deep random grooves greater than 5 mm in width, the correction is, $C_{cond} = 4 - 0.03P$ where P is the percentage of heavy vehicles.”

p559, Replace the nine lines following Eq. 11.102 with the following:
“Low barriers such as twin beam metal crash barriers can have less effect than soft ground. So if these are used with any proportion, P_d, of soft ground, their effect should be calculated by looking at the lower noise level (or the most negative correction) resulting from the following two calculations:

- Soft ground correction ($0 < P_d < 1.0$), excluding the barrier correction; and
- hard-ground correction ($P_d = 0$) plus the barrier correction.”

p560, Remove the sentence beginning 12 lines from the bottom of the page, “Note that the two values for β must add up to 180° ”

p561, In the heading and first line, change “FWHA” to “FHWA”

p561, 6 lines from the bottom, add “Menge, et al.,” before “1998”.

p562, 4 lines under Equation (11.108), add “Menge, et al.,” before “1998”.

p563, 5th line in first paragraph, and 3 lines under Equation (11.109), replace “1995” with “U.K. DOT, 1995a”.

p563, 3 lines under Equation (11.111), replace “1995” with “U.K. DOT, 1995a,b”.

p563, p564, Replace the last two lines of page 563 and the top three lines of page 564 with the following:

“Note that different vehicle types must be considered as separate trains. For any specific train type consisting of N identical units, the quantity SEL_{ref} is calculated by adding $10\log_{10}N$ to SEL_v. In addition the track correction, C_2 from Table 11.32 must also be added so that:

$$SEL_{ref} = SEL_v + 10\log_{10}N + C_2$$

p564, The second entry of "Freight vehicles, tread braked, 2 axles" should actually be "Freight vehicles, disc braked, 4 axles"

p565, Lines 1 and 3, change SEL to SEL_{ref}.

p565, table 11.32, add ,C_2, after “Correction” in the column 2 label.

p567, In Equation (11.121), remove the minus sign

p568, Add equation numbers, 11.122 and 11.123 to the equations at the top of the page.

p580, 10 lines above Equation (12.1), change “1985” to “1986”.

p609, line 2 in the table for fresh water, change “988” to “998”.

p609, line in the table for iron, Young’s Modulus = 206, density =7,600, $\sqrt{E/\rho}$= 4910, η = 0.0005 and ν = 0.27.

p609, line in the table for Nylon, move the “6.6” next to “nylon” and Young’s Modulus = 2, density =1,140, $\sqrt{E/\rho}$= 1,320.

p609, line in table for lead, loss factor = 0.015

p609, line in table for concrete, loss factor = 0.005 - 0.02

p610, the last column of numbers is the density and the 2nd last column is Young’s modulus.

p617, In figure captions, change “C.6” to “C.5” and “C.5” to “C.6”.

p621, Change number of Eq. 1.36 to C.24.

p622, In Equation (C.29), replace Z_N with $Z_N/\rho c$

p623, In Equation (C.30), replace θ with β in three places.

p645, Missing references.
Allard, J.F. and Champoux, Y. (1989). In situ two-microphone technique for the

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p663, after last line, add, "ANSI S3.6 – 1997. Specification for Audiometers."

p667, line 1, replace "E90-99" with "E90-02".

p715, Change "Noise Reduction Index" to "Noise Reduction Coefficient".