Aeroacoustics of Low Mach Number Flows: Fundamentals, Analysis and Measurement, by Stewart Glegg and William Devenport, Academic Press, 2017.

List of corrections

Chapter	Page	Correction
2	22	Equation at bottom of page should read $H - H_o = -\partial\phi/\partial t \equiv H'$
	23	Equation 2.5.8 numerator in last term should be μ not ν
	27	Equation 2.6.11 $\mathbf{v}.\mathbf{n}$ should be $\mathbf{v}.\mathbf{n}^{(o)}$
	41	Equation 2.7.29 should be $\zeta = \frac{1}{2}\left(z + \sqrt{z^2 - a^2}\right)$
	44	Inequality in the last sentence, first paragraph should read $R > a/2$
4	75	Equation 4.1.4 T_{ij} should be $\rho v_i v_j - [(p - p_\infty) - (\rho - \rho_\infty)c_\infty^2]\delta_{ij} - \sigma_{ij}$
	77	Last term on RHS of Equation 4.2.4 should be $w_i w_j$ not $w_j w_j$
	81	Equation 4.3.10 should be $G_o(\boldsymbol{x}, t\|\boldsymbol{y}, \tau) = \frac{\delta(t-\tau-\|\boldsymbol{x}-\boldsymbol{y}\|/c_\infty)}{4\pi\|\boldsymbol{x}-\boldsymbol{y}\|}$
	84	Equation 4.4.9, second term on RHS should read $\left[\frac{\partial T_{ij}}{\partial\tau}\right]_{\tau=\tau^*}\left(\frac{\partial\tau^*}{\partial x_i}\frac{\partial}{\partial x_j}\left(\frac{1}{r}\right) + \frac{\partial}{\partial x_i}\left(\frac{1}{r}\frac{\partial\tau^*}{\partial x_j}\right)\right)$
	85	Equation 4.4.12 should be $I_r \propto \frac{\rho_\infty U^8 V^2}{(4\pi\|\boldsymbol{x}\|)^2 c_\infty^5 L^4}\left(\frac{x_i x_j}{\|\boldsymbol{x}\|^2}\right)^2$
	91	Equation 4.7.6: q on RHS should be a function $\mathbf{y}$ not $\mathbf{x}$, i.e. $q(\mathbf{y}, t)$
	92	Second paragraph: missing superscript (o), $\left\|\boldsymbol{k}^{(o)}\right\| = \omega/c_\infty$ and two lines below "less than" sign should be $\|\boldsymbol{k}\| \leq \omega/c_\infty$
8	173	The horizontal axes in Fig. 8.3A and 8.3B should be labelled t and τ, respectively
9	204	Paragraph after eqn. 9.2.9, first instance of "the incremental increase in" should be deleted
9	216	Equations 9.2.31, 32 and 33, C_1 should be replaced with C_2
10	254	Line 23 should begin $\omega\nu/u_\tau^2 = 1$
	256	L' in Fig. 10.34 should be L_{eff}
11	281	Equation 11.4.7 should read $\langle\tilde{a}_m\rangle = \frac{\Delta t}{2\pi} DFT^*(a_n, m)$ RHS of equation 11.4.9 should read $\frac{2\pi}{\Delta t} IDFT(\langle\tilde{a}_m\rangle^*, n)$
	283	The factor $1/2\pi$ in line 14 should be $T_o/2\pi$
	285	Equation 11.5.4 is missing and should be inserted as, $\tilde{c}(\omega) = \frac{1}{2\pi}\int_{-\infty}^{\infty} a(\tau)\int_{-\infty}^{\infty} b(t')e^{i\omega(t'+\tau)}dt'd\tau = \frac{1}{2\pi}\int_{-\infty}^{\infty} a(\tau)e^{i\omega\tau}d\tau \int_{-\infty}^{\infty} b(t')e^{i\omega t'}dt' = 2\pi\tilde{a}(\omega)\tilde{b}(\omega)$
	290	Equation after first paragraph: integral should be multiplied by $1/T_o$
12	303	Equation 12.1.6 should be $\phi_m = k\left((m-1)\Delta x - \frac{1}{2}L\right)\sin\theta_s$
14	354	First term of exponent on RHS of equation 14.1.1 should be multiplied by i

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	355	Equation 14.2.1 should appear as $\tilde{p}(\mathbf{x},\omega) \approx -\frac{i\pi\omega x_2 e^{ik_o r_e - ik_o M x_1}}{c_\infty r_e^2}\Delta\tilde{\tilde{p}}(k_1^{(o)}, k_3^{(o)}, \omega)$ where $k_1^{(o)} = k_o\left(\frac{x_1}{r_e} - M\right)$ and $k_3^{(o)} = \frac{k_o x_3 \beta^2}{r_e}$
	362	Equation 14.4.1 should appear as two separate expressions: $\tilde{\tilde{\mathbf{u}}}(\mathbf{k}) = i\mathbf{k}\times\tilde{\tilde{\boldsymbol{\omega}}}(\mathbf{k})/\lvert\mathbf{k}\rvert^2$ where $\tilde{\tilde{\boldsymbol{\omega}}}(\mathbf{k}) = \frac{1}{(2\pi)^3}\int_V \boldsymbol{\omega}(\mathbf{y})e^{-i\mathbf{k}.\mathbf{y}}dV$
15	388	Equation 15.4.16, exponent should be positive Below equation 15.4.17, k_1 and k_3 should have negative signs in the definition of $\boldsymbol{\kappa}$ Two lines after equation 15.4.19 the inequalities should read $\lvert k_1\rvert \ll \lvert k\rvert$ and $\lvert k_3\rvert \ll \lvert k\rvert$, and the end of this sentence should read "indistinguishable from the negative of k_1 and k_3"
	390	The first expression in the line below equation 15.4.24 should be $\kappa_i \approx -k_i$
	392	Just above equation 15.4.30 the equality should read $\boldsymbol{\kappa} = -\mathbf{k}$ The right hand side of equation 15.4.30 should be positive