

Errata

Sound examples corresponding to the figures can be found at:
<http://recherche.ircam.fr/equipes/instruments/demoucron/>

p. 11, last equation and p. 12, first equation: $\frac{v_b}{x_0}$ should be replaced by $\frac{v_b L}{x_0}$.

p. 13, Fig. 1.2, caption 1.2: “When the corner passes under the bow” (and not “string”)

p. 28, Eq. 1.26: For consistency with Eq. 1.2, the equation should be

$$y(x_m, t_n) = y_+(m - n) + y_-(m + n)$$

p. 39, Eq. 2.10: A more appropriate approximation is

$$\Omega_n \approx k_n \sqrt{\frac{T_0}{\rho_L}} \left(1 + \frac{EI}{2T_0} k_n^2 \right) + j \frac{R_L(\omega)}{2\rho_L}$$

p. 40, l. 4: “an exponential function e^{-2t/τ_n} ”

p. 46, Eq. 2.16:

$$a_n(t_1) = X_{1n} a_n(t_0) + X_{2n} \dot{a}_n(t_0) + \frac{1}{\rho_L} \int_{t_0}^{t_1} f_n(t') h_n(t_1 - t') dt'$$

p. 51, Eq. 2.33: v_0 is a parameter of the friction characteristics.

p. 53, l. 19: “Neglecting the influence of the cross-coefficients \underline{B}_{01} and C_{02} ...” (instead of “ B_{02} ”)

p. 59, Fig. 2.13: The test in the left-up box (Computation when the string sticks) should be “Test: if $F_0 > F_{max}$ ”

p. 60, 1.5-6 from below: “The case of the free oscillations can be reduced to 3N multiplications and 2N additions”

p. 61, l.15: “which requires 5 additions and 4 multiplications for each point”

p. 62, Table 2.1: There is some confusion between the number of additions and the number of multiplications. The right table is:

	Modal Synthesis	Finite Differences	Waveguides
Free oscillation	2N / 3N	0 / 2N	4 / 2
Ideal string	7N / 9N	0 / 2N	4 / 2
Stiff string	7N / 9N	5N / 4N	24 / 27
With damping	7N / 9N	7N / 5N	32 / 37

p. 63, l. 15-16: “with fundamental frequency $f_0 = 293$ Hz” (instead of 294 Hz)

p. 66, l. 3 from below: “the release is slightly rounded for $f_s = 441$ kHz” (instead of 44.1 kHz)

p. 76, l. 2: “for an experienced player” (instead of “experimented”)

p. 97, l. 12: “players seem to prefer changing bow force and bow-bridge distance” (instead of “bow position”)

p. 141, Eq. 5.8, first line : $F_g(t) = F_{pinch}$ and not F_{min} , as written.

Second line : a parenthesis is lacking after $\cos 2\pi f_1(t - T_{pinch})$

$$F_g(t) = \begin{cases} F_{pinch} & t \leq T_{pinch} \\ \frac{F_{pinch} - F_{min}}{2} (1 + \cos 2\pi f_1(t - T_{pinch})) + F_{min} & T_{pinch} < t < T \end{cases}$$

p. 146, Fig. 5.16, caption l. 5 : “ T_{pinch} is the time between the attack of the stroke and ...” instead of T_1 .

p. 173, l. 6: ”we focused on the variation of the bow-bridge distance” (instead of “bow position”)

p. 201 : l.4 from below : delete parenthesis “(about 5 ms)”. Same page, last line : delete “to about 50 ms”.

p. 213, ref. 34 : The journal is *Acta acustica*.