Page 2 — *line 9 :* the abbreviation "h" is changed to "hour" : With $\ell \cdot m = \frac{1}{10\,000}\,\mathrm{J} \cdot \mathrm{mile}^{-2} \cdot \mathrm{hour}^2$, say, this amounts to 0.14 gallon.

Notice that it results in changes in both page 2 and page 3 (but not further).

Page 2 — *line 14 :* *Galilean* instead of *galilean*.
line 20 : *Galilean* instead of *galilean* (twice).

Page 3 — after the last formula: we use $*$ as *labels* (instead of *exponents*).

Page 3 — *line −1 :* *Galilean* instead of *galilean*.

Page 4 — *line 19 :* *Galilean* instead of *galilean*.
line −2 : *Galilean* instead of *galilean*.

Page 6 — *line 5 :* *position* instead of *positive*.
line −3 : in particular (instead of *particlar*).

Page 8 — *line 6 :* associated *with* (instead of *associated to*).
line 7 : *Now what is the value of A?* instead of *There remais to find the value of A*.
line 13 : *independent* instead of *independant*.

Page 9 — *line −2 :* *circuit* instead of *cicuit*.

Page 12 — *line 4 :* energy *sink* instead of *well*.
line 17 : *at the equator* instead of *at the level of the equator*.

Page 13 — first line of footnote: *example* instead of *exemple*.

Page 14 — *line 8 :* *Cauchy* instead of *Caucy*.

Page 53 — *line −6 :* I have added : *Joseph* Fourier (1768–1830) *invented the notation* "$\int_a^b$".

Page 53–67 — The *folio* has changed, not the text (it appeared that the Borel biography was still in a smaller font than the others).

Page 69 — *line 12 :* $\int f \,\mathrm{d}\mu$ instead of $\int f d\mu$.

Page 71 — *line −6 :* An in-line formula has been displayed.

Page 109 — *line 6 :* articial singularity at $-1/2$ (instead of -1).

Page 111 — *line 17 :* $F(w) = f(1/w)$ instead of $f(1/z)$.

Page 114–116 — For sake of consistency, the variable a as been changed to z_0 ; the variable b_{-1} has been changed to a_{-1}. Only in Example 4.83 does a remain an "a".

Page 115 — *line 4 :* An inline formula has been displayed.
line 12 : The formula should read $2\pi\mathrm{i}\, a_{-1}\, \mathrm{Ind}_\gamma(0)$ and not $2\pi\mathrm{i}\, a_{-1}\, \mathrm{Ind}_\gamma(z)$.

Page 116 — *line 6 :* The french word *où* is changed to *where*.

Page 120 — *line −2 :* The formula has been changed and a comment added :

$$\mathscr{I} = \int_{-\infty}^{\infty} \frac{\mathrm{e}^{\mathrm{i}kx}}{x^2 + a^2}\,\mathrm{d}x,$$

the imaginary part being zero.

Page 121 — *line 5 :* The end of the formula has been changed (just a minus sign) to :

$$\lim_{z \to \mathrm{i}a} \frac{\mathrm{e}^{\mathrm{i}kz}}{z + \mathrm{i}a} = \frac{\mathrm{e}^{-ka}}{2\mathrm{i}a}$$

Page 122 — *line 8 :* On the figure, ξ and ξ' have been permuted.
line 13 : where f is a *meromorphic* function.

Page 141 — *line 5 :* Read "$u : \mathcal{B} \to \mathbb{R}$ be a harmonic function."

Page 150 — *line 6–7 :* A factor $\frac{1}{2}$ has been added to the right-hand side.

Page 155 — First line of text, the fonction has been named $f : (x, y) \mapsto (u, v) = \cdots$.

Page 176 — Exercise 6.4: a source or a *sink* (instead of *well*).

Page 183 — last line of text, *independent* instead of *independant*.

Page 200 — *line 5 :* *Galilean* instead of *galilean*.
line −4 : $\boldsymbol{j}'$ has been changed to j'_x.

Page 231 — The function in the footnote should read

$$f_n(t) = \sum_{k=1}^{n} \frac{\cos 2kt}{k^2} \qquad \text{for any } t \in \mathbb{R}.$$

Page 239 — *line 13 :* "The convolution inverse of $[\delta' + \alpha\delta]$ in $\mathscr{D}'_+$" (instead of $[\delta + \alpha\delta']$).

Page 264 — The last equality in Prop. 9.36 should read

$$\forall n \in \mathbb{Z}, \qquad c_n(f_\tau) = \mathrm{e}^{-2\pi\mathrm{i}n\tau/a}\, c_n(f).$$

Page 265 — *line 4 :* Read $(e_n)_{n\in\mathbb{Z}}$ instead of $(e_n)_{n\in\mathbb{N}}$.

Page 266 — *line 4 :* the formulas should read:

$$f(t) = \frac{a_0}{2\sqrt{a}} + \frac{1}{\sqrt{a}} \sum_{n=1}^{+\infty} \left[a_n \cos\left(2\pi n \frac{t}{a}\right) + b_n \sin\left(2\pi n \frac{t}{a}\right) \right]$$

and

$$\frac{|a_0|^2}{4} + \frac{1}{2} \sum_{\substack{n=-\infty \\ n\neq 0}}^{+\infty} \left(|a_n|^2 + |b_n|^2 \right) = \int_0^a |f(t)|^2 \,\mathrm{d}t.$$

Page 274 — *line 8 :* *well-defined* instead of *welldefined*.

Page 278 — *line 18 :* *example* instead of *exemple*.

Page 308 — *line 12 :* The end of the proof should read:

Now, write

$$f(x) = \frac{a_0}{2} + \sum_{n=1}^{\infty} a_n \cos(2\pi n x) = \frac{1}{2} \sum_{n\in\mathbb{Z}} a_n\, \mathrm{e}^{2\mathrm{i}\pi n x}$$

and differentiate twice:

$$2 - 2Ш(x - \tfrac{1}{2}) = -2 \sum_{n\in\mathbb{Z}^*} (-1)^n \, e^{2i\pi n x}$$

$$Ш(x - \tfrac{1}{2}) = 1 + \sum_{n\in\mathbb{Z}^*} (-1)^n \, e^{2i\pi n x}$$

$$Ш(x) = 1 + \sum_{n\in\mathbb{Z}^*} (-1)^n \, e^{2i\pi n x} \, e^{i\pi n} = 1 + \sum_{n\in\mathbb{Z}^*} e^{2i\pi n x} = \sum_{n=-\infty}^{+\infty} e^{2i\pi n x}$$

(since Ш is even), which was to be proved.

Page 380 — ***line 20 :*** infinite potential *sink* (instead of *well*).

Page 393 — ***line −3 :*** infinite potential *sink* (instead of *well*).

Page 403 — ***line −4 :*** infinite potential *sink* (instead of *well*).
line −2 : $H\varphi$ instead of $H\psi$.

Page 405 — ***line 9 :*** A "$\forall n \geqslant 1$" added:

$$\forall n \geqslant 1 \qquad \langle \psi | \overline{H}^2 \psi \rangle \stackrel{\text{def}}{=} \sum_{n=1}^{\infty} E_n^2 \, \langle \psi | \varphi_n \rangle \, \langle \varphi_n | \psi \rangle = \frac{15\,\hbar^4}{8m^2 a^4},$$

Page 410 — In Equations (15.2) and next, π should be squared:

$$(-4\pi^2\nu^2 + \omega_0^2)\, \widetilde{G}(\nu) = 1 \tag{15.2}$$

$$\widetilde{G}(\nu) = \frac{1}{\omega_0^2 - 4\pi^2\nu^2}. \qquad \text{(naive solution)}$$

Page 414 — ***line −4 :*** The integration variables should be t' and $\boldsymbol{r}'$:

$$\mathsf{A}(\boldsymbol{r}, t) = [G * \mathbf{j}](\boldsymbol{r}, t) = \iiint_{\mathbb{R}^3} \int_{-\infty}^{+\infty} G(\boldsymbol{r} - \boldsymbol{r}', t - t')\, \mathbf{j}(\boldsymbol{r}', t')\, dt'\, d^3\boldsymbol{r}'$$

Page 416 — ***line 2 :*** $(2\pi)^3$ has been changed to $(2\pi)^4$.

Page 425 — ***line 11 :*** The integration variables should be t' and x':

$$\mathcal{T}(x, t) = [G * \rho](x, t) = \int_{-\infty}^{\infty} \int_{0}^{+\infty} G(x', t')\, \rho(x - x', t - t')\, dt'\, dx'. \tag{15.14}$$

line −6 : The integration variable should be x': the formula has been changed to

$$\mathscr{T}(x, t) = c\, T_0(x)\, \delta(t) * G(x, t) = c \int_{-\infty}^{+\infty} G(x - x', t)\, T_0(x')\, dx'.$$

Page 426 — ***line 21 :*** The integration variable is changed to $\boldsymbol{r}'$.

Page 455 — ***line 8 :*** *Galilean* instead of *galilean*.

Page 470 — ***line 3 :*** Read

$$\omega^2 = f_{12}\, dx^1 \wedge dx^2 + f_{13}\, dx^1 \wedge dx^3 + \cdots + f_{1n}\, dx^1 \wedge dx^n$$

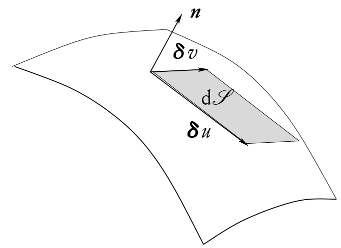
Page 473 — ***line 7 :*** After "may be integrated over the whole surface", read:
Assume the parametrisation to be **regular**, *i.e.* at each point, the the vectors

$$\boldsymbol{\delta}u \stackrel{\text{def}}{=} \frac{\partial \boldsymbol{\sigma}}{\partial u} = \left(\frac{\partial x}{\partial u}, \frac{\partial y}{\partial u}, \frac{\partial z}{\partial u}\right) \qquad \text{and} \qquad \boldsymbol{\delta}v \stackrel{\text{def}}{=} \frac{\partial \boldsymbol{\sigma}}{\partial v} = \left(\frac{\partial x}{\partial v}, \frac{\partial y}{\partial v}, \frac{\partial z}{\partial v}\right)$$

are linearly independant. Define

$$\begin{aligned}\int_{\mathscr{S}} \omega^2 &\stackrel{\text{def}}{=} \int_{\Omega} \left[f_x\, dy \wedge dz(\boldsymbol{\delta}u, \boldsymbol{\delta}v) + f_y\, dz \wedge dx(\boldsymbol{\delta}u, \boldsymbol{\delta}v) + f_z\, dx \wedge dy(\boldsymbol{\delta}u, \boldsymbol{\delta}v)\right] du\, dv \\ &= \int_{\Omega} f_x \left[\delta u_y\, \delta v_z - \delta u_z\, \delta v_y\right] du\, dv + \text{CP} \\ &= \int_{\Omega} \boldsymbol{f} \cdot [\boldsymbol{\delta}u \wedge \boldsymbol{\delta}v]\, du\, dv = \int_{\mathscr{S}} (\boldsymbol{f} \cdot \boldsymbol{n})\, d\mathscr{S}\end{aligned}$$

where "CP" stands for the terms obtained by circular permutations or the indices. The last equality comes from $\boldsymbol{\delta}u \wedge \boldsymbol{\delta}v = \boldsymbol{n}\ d\mathscr{S}$, where $\boldsymbol{n}$ is the normal vector to the surface and $d\mathscr{S}$ is the surface integration element.



The first integration is about a *differential form* ω, while the last integration is about a *function*.

Page 481 — ***line 2 :*** Read "covariant" instead of "contravariant".

Page 527 — ***line 15 :*** Definition 20.15: Read "$X(\Omega) = \{x_k\ ;\ k \in I\} \cup D$,". Moreover, the **expectation** is defined "if this series converges *absolutely*."

Page 548 — Lemma 20.71 is called **Markov inequality**.

Page 550 — ***line 4 :*** $2 \cdot 10^{-3}$ instead of 2.10^{-3}, and $4 \cdot 10^{-6}$ instead of 4.10^{-6}.

Page 554 — ***line 6 :*** Read "converges to $X(\omega)$."

Page 558 — ***line 7 :*** A factor is lacking; read

$$\mathrm{P}\left\{\frac{S_n - n\mu}{\sigma\,\sqrt{n}} < x\right\} \xrightarrow[n\to\infty]{} \mathscr{N}(x) = \frac{1}{\sqrt{2\pi}} \int_{-\infty}^{x} e^{-t^2/2}\, dt.$$

Page 567 — *line -2* : Read "$\exp\Big(-(a_1+\cdots+a_n)|u|\Big) = \mathrm{e}^{-na|u|}$. The normalized sum $S_n/\sqrt{n}$ a a characteristic function $\psi_n(u) = \mathrm{e}^{-\sqrt{n}a|u|}$ and do not converge pointwise to the characteristic function of a normal random variable."

Page 582 — *line 15* : *boundedness* instead of *boundednes*.