Errata

p. 2, 4dn: Change $\sum_{I \in \mathcal{I}}$ to $\sum_{I \in \mathcal{C}}$.

p. 4, 2dn in footnote: Should be "about to be shown"

p. 6, 10dn: Change $\mathcal{C}$ to $\mathcal{C}'$

p. 6, 3up: Change to $8N \mathrm{card}(\mathcal{C})$

p. 36, 18dn: Exercise 2.1.17 should be attempted after Exercise 2.1.19

p. 38, 5dn: Change second $\underline{\lim}_{n \to \infty} B_n$ to $\overline{\lim}_{n \to \infty} B_n$.

p. 57, 3up–1up: When doing the last part of Exercise 3.2.30, assume that $N' \geq N$.

p. 60, 10dn: Change $[0, F(\infty))$ to $[0, F(\infty)]$

p. 60, 12dn: Change $F(y) \geq F(x)$ to $F(y) \geq x$.

p.. 60, 13up: Change $F(b_n)$ to $F(b_n-)$

p. 63, 23dn: Change $\frac{2}{\pi} |\arctan(y) - \arctan(x)|$ to $\frac{2}{\pi} |\arctan(\beta) - \arctan(\alpha)|$

p. 69, 1up: Change $-\int_{E^-} (f + g) \, d\mu$ to $+\int_{E^-} (f + g) \, d\mu$

p. 71, 4up: Change "$\leq$" to "$\geq$" and $\geq$ to $\leq$ in this line.

p. 79, 4dn: Change (3.3.13) to (3.2.8).

p. 90, 3up: Change Lemma 3.2.13 to Theorem 3.2.10.

p. 100 & 101: Insert into the definintion of an $\mathcal{L}$-system the condition
(**c'**) If $f, g \in \mathcal{K}$ and $g - f \in \mathcal{L}$, then $g - f \in \mathcal{K}$
and in line 2dn on p. 101 change (**c**) to (**c'**).

p. 115, 13up: Change (5.1.3) to (5.1.5)

p. 128, 7dn: Change to "non-emty, connected, open set"

p. 134, 7up: Change $\mathbb{R}^N \times (-1, 1)$ to $(\mathbb{R}^N \setminus \{0\}) \times (-1, 1)$

p. 145, 4dn: Change to $\int_0^1 \frac{f(z(t))}{z(t) - \zeta} \, dt$

p. 145, 13dn: Change to $C_{\mathrm{b}}^2(\mathbb{R}^2; \mathbb{C})$

p. 155, 2up: Change f_n^{p-1} for $f_n^{\frac{1}{p-1}}$.

pp. 158, 1 & 6dn: Change "dominates" to "is dominated by"

pp. 168, 1, & 2, 9dn: Change $C^1(\lambda_{\mathbb{R}^N}; \mathbb{R})$ to $C^1(\mathbb{R}^N; \mathbb{R})$, $L^{p'}(\lambda_{\mathbb{R}}; \mathbb{R})$ to $L^{p'}(\lambda_{\mathbb{R}^N}; \mathbb{R})$, and $\tau_{st\omega}$ to $\tau_{st\mathbf{e}}$.

pp. 184–185: $\{\mathfrak{e}_n : n \in \mathbb{N}\}$ should be replaced by $\{\mathfrak{e}_n : n \in \mathbb{Z}\}$ in line 4 up on p. 184 and lines 10 down, 15 down, 19 down, and 10 up on p. 185.

p. 185, 8 & 10dn: Replace $L^2(\mathbb{S}^1; \mathbb{C})$ by $L^2(\lambda_{\mathbb{S}^1}; \mathbb{C})$.

p. 185, 2 & 17dn: Replace $\{(2\pi)^{-\frac{1}{2}} z^n : n \in \mathbb{N}\}$ by $\{(2\pi)^{-\frac{1}{2}} z^n : n \in \mathbb{Z}\}$ in line 2 down and $\sum_{n \in \mathbb{N}}$ by $\sum_{n \in \mathbb{Z}}$ in lines 17 down.

p. 185, 1up: Replace $\sum_{n \in \mathbb{N}} (\mathfrak{e}_n, \mathfrak{e}_0)_{L^2(\lambda_{[0,1]}; \mathbb{C})}$ by $\sum_{n \in \mathbb{Z}} r^{|n|} (\mathfrak{e}_n, \mathfrak{e}_0)_{L^2(\lambda_{[0,1]}; \mathbb{C})}$

p. 186, 3dn: Replace $|f(x) - f(y) :$ by $|f(x) - f(y)| :$

p. 188, 1up: Right hand side of equation should be

$$\sum_{\ell=0}^{\ell} \frac{(-1)^k b_{\ell-k}}{k!}$$

p. 198–199: In line 5dn on 198 and lines 8up & 7up on 199, change $2\pi(2|\mathbf{n}\| + 1)$ to $2\pi(2\|\mathbf{n}\| + N)$.

p. 203, 10up: Change $\mu \ll \mu$ or $\mu \ll \nu$.

p. 204, 14up: Change $[0, 1[$ for $[0, 1]$.

p. 206, 3up: Change $\kappa \equiv \{\mu(A)$ to $\kappa \equiv \sup\{\mu(A)$.

p. 214, 12 & 11up: Replace these lines with: Thus we have completed the proof of $(**)$ and therefore the desired equalities.

p. 214, 5up: Change to: Thus, since $\nu(E) = \mu_I(E)$, Theorem 2.1.13 says that ....

p. 222, 11up: Replace second $=$ by $\geq$ in this line.