

- Page vii Line 14. **Delete** every $n \in \mathbb{N}$ and
- Page 10 Line 18. **After** Thomson **Add** [258],[259]
- Page 10 Line -6. **After** $\overline{B}_r(x) \cap \overline{B}_{r'}(x')$ **Add** $= \emptyset$
- Page 20 Line 5. **Replace** $\mathcal{P}^s(A) = \overline{\mathcal{P}}^s(E)$ **by** $\overline{\mathcal{P}}^s(A) = \overline{\mathcal{P}}^s(E)$
- Page 20 Line 6. **Replace** Let E_n be an increasing sequence
by Let $E_n \nearrow E$ be a sequence.
- Page 21 Line 20. **Replace** Vitali cover **by** fine cover
- Page 33 Line -12. **After** measurable sets.
add See Exercise 10.51 in [250], dated 1965.
- Page 34 Line -13. **Replace** It is a metric outer measure. **by** It is not a metric outer measure (Bilel Selmi, manuscript).
- Page 36 Line -4. **Replace** $\bigcup_{y \in S}$ **by** $\bigcup_{y \in A}$
- Page 38 Line 6. **Replace** $t_1 = 0$ **by** $t_1 = a$
- Page 38 Line -11. **Replace** $N_{\varepsilon/2}(C)$ **by** $N_\varepsilon(C)$
- Page 45 Line -6. **Replace** of course) that
by of course) that if E and F are nonempty separable metric spaces, then
- Page 46 Line -3. **Replace** any any **by** any
- Page 50 Line -4. **Replace** centered Vitali cover **by** fine cover
- Page 51 Line 12. **Replace** $\overline{D}^s(x)$ **by** $\overline{D}_{\mathcal{M}}^s(x)$
- Page 51 Line -2. **Replace** $C^s(F)$ **by** $\tilde{C}^s(F)$
- Page 53 Line 3. **Replace** $\sup \overline{D}_{\mathcal{M}}^s(x)$ **by** $\inf \overline{D}_{\mathcal{M}}^s(x)$
- Page 58 Line -6. **Replace** $\mathcal{H}_{\mathcal{B}}^s(F) \leq pq^s \mathcal{H}_{\mathcal{A}}^s(F)$ **by** $\overline{\mathcal{H}}_{\mathcal{B}}^s(F) \leq pq^s \overline{\mathcal{H}}_{\mathcal{A}}^s(F)$
- Page 59 Line 5. **Replace** $\mathcal{H}_{\mathcal{B}}^s(F) \leq pq^s \mathcal{H}_{\mathcal{A}}^s(F)$ **by** $\overline{\mathcal{H}}_{\mathcal{B}}^s(F) \leq pq^s \overline{\mathcal{H}}_{\mathcal{A}}^s(F)$
- Page 59 Line 12. **Replace** $\mathcal{H}_{\mathcal{A}_2}^s(h[F]) \leq pq^s \mathcal{H}_{\mathcal{A}_1}^s(F)$
by $\overline{\mathcal{H}}_{\mathcal{A}_2}^s(h[F]) \leq pq^s \overline{\mathcal{H}}_{\mathcal{A}_1}^s(F)$
- Page 59 Line 15. **Replace** $\mathcal{H}_{\mathcal{A}_1}^s(h^{-1}[E]) \leq pq^s \mathcal{H}_{\mathcal{A}_2}^s(E)$
by $\overline{\mathcal{H}}_{\mathcal{A}_1}^s(h^{-1}[E]) \leq pq^s \overline{\mathcal{H}}_{\mathcal{A}_2}^s(E)$
- Page 61 Line 19. **Replace** $K \subseteq S$ **by** $K \subseteq F$
- Page 62 Line 11. **Replace** $\mathcal{H}_{\delta}^s(E) > \alpha$ **by** $\mathcal{H}_{2\delta}^s(E) > \alpha$. Choose a sequence
 δ_j so that $2\delta > \delta_1 > \delta_2 > \dots$ and $\delta_j \rightarrow \delta$.
- Page 62 Line 12. **Replace** there is k_1 **by** by (1.2.8) there is k_1
- Page 62 Line 13. **Replace** \mathcal{H}_{δ}^s **by** $\mathcal{H}_{\delta_1}^s$
- Page 62 Line 15. **Replace** \mathcal{H}_{δ}^s **by** $\mathcal{H}_{\delta_2}^s$
- Page 62 Line 17. **Replace** \mathcal{H}_{δ}^s **by** $\mathcal{H}_{\delta_j}^s$
- Page 62 Line 20. **After** compact sets **add** and $\mathcal{H}_{\delta}^s(A_j) > \alpha$
- Page 64 Line 5. **Add** [Answer: No in general, yes in \mathbb{R}^d : A. Schechter, 1998.]

Page 67. Insert at the top

(1.5.12): The Strong Vitali Property is not used in (a), so the inequality

$$\mathcal{P}^s(E) \inf_{x \in E} \underline{D}^s \mathcal{M}(x) \leq \mathcal{M}(E)$$

does not need this assumption. Without the Strong Vitali Property we may prove a modified form of the second inequality:

$$\mathcal{M}(E) \leq 3^s \mathcal{P}^s(E) \sup_{x \in E} \underline{D}^s \mathcal{M}(x).$$

To do this, use (1.3.1) in place of the Strong Vitali Property. See Cutler [52]. Mattila & Mauldin (*Math. Proc. Camb. Phil. Soc.* **121** (1997) 81–100) provide an example in Hilbert space where the inequality of (1.5.11) is false with constant 1.

Page 88 Line -9. After the set E . **add** Remember (1.4.20) and (1.5.10).

Page 96 Line 2. replace $\Phi(\mathbb{1}_U)$ **by** $\Phi(1)$

Page 106. Everywhere, replace $\varepsilon/5$ **by** $\varepsilon/7$ **and** $\varepsilon/(5\gamma)$ **by** $\varepsilon/(7\gamma)$

Page 106 Line 19. Replace $\varepsilon/10$ **by** $\varepsilon/14$

Page 106 Line -8. After $p\eta < 1$ **add** , $\eta p\gamma < 1$,

Page 106 Line -4. Replace $<$ **by** \leq

Page 107. Replace first two lines by

$$\begin{aligned} &\leq (-\gamma)\mathcal{M}(E_0) + \sum_{i=1}^p \left(h(x_i) - \frac{\varepsilon}{7} \right) \mathcal{M}(E_i) \\ &\quad + 2\gamma \frac{\varepsilon}{7\gamma} + \gamma\eta + 2 \frac{\varepsilon}{7} \sum_{i=1}^p \mathcal{M}(E_i) + \eta p\gamma + \eta p \frac{\varepsilon}{7} \end{aligned}$$

Page 107 Line -11. Replace converges to E_0 **by** converges narrowly to E_0

Page 108 Line -5. Replace $\text{dist}(x, U_k)$ **by** $\text{dist}(x, S \setminus U_k)$

Page 108 Line -4. Replace $(2/\varepsilon)f_k$ **by** $(\varepsilon/2)f_k$

Page 108 Line -3. After $\varepsilon < 1$). **add** Recall (p. 105) V_1 is the set of functions with Lipschitz constant 1 and bounded by 1 used to define the metric ρ_1 .

Page 109 Line 9. Replace K is **by** K is

Page 118 Line 14. Replace if $s <$ **by** if $s >$ **and** if $s \geq$ **by** if $s \leq$

Page 121 Line 13. Replace $F \subseteq A$ **by** $F \subseteq E$

Page 127 Line 15.

Delete Suppose in addition that \mathcal{M} has the Strong Vitali Property. Then

Page 127 Line -4. Replace the parenthesis by

(the variant on page 67 that does not require the Strong Vitali Property)

Page 132. Figure 3.3.21. Label \mathcal{T}_1 **is missing.**

Page 136 Line -1. Replace $F_1(0, 1)$ **by** $F_1(1, 1)$ **and** $F_2(0, 1)$ **by** $F_2(1, 1)$

Page 137 Line 1. Replace $F_3(0, 1)$ **by** $F_3(1, 1)$ **and** $F_4(0, 1)$ **by** $F_4(1, 1)$

Page 174 Line 20. Replace the standard normal and Cauchy

by certain normal and Cauchy

Page 185 Line 7. Replace for all $t \in \mathbb{R}$ **by** for D_X -almost all $t \in \mathbb{R}$

Page 186 Line -5. Replace the third σ' **by** σ

Page 191 Line -7. Replace \leq **by** \geq

Page 193. Replace footnote ¹⁰ by

TIMING TOAST

Grook on how to char for yourself

There's an art of knowing when.

Never try to guess.

Toast until it smokes and then

twenty seconds less.

Piet Hein, *Grooks 2*, p. 23

Page 195 Line 16. Replace most likely by more likely

Page 197 Line 16. After dyadic subintervals add $[j/2^k, (j+1)/2^k]$

Page 202. Add (4.3.18): the converse is not true

Page 211 Line -15. Replace all U by all $e \in E$ and $f_e U$ by $f_e[U]$

Page 211 Line -14. Replace $e \neq s' \in E$ by $e \neq e' \in E$

Page 213 Line 19. Replace Show that Lemma 5.2.4 remains

by Does Lemma 5.2.4 remain

Page 216 Line 1. After triangle T add (p. 214)

Page 228 Line -2. Replace $n(2i)$ by $n(2i, k+1)$

Page 229 Line 1. Replace $n(2i)$ by $n(2i, k+1)$

Page 229 Line 9. Replace I_i by I_1

Page 231. Figure 5.5.1. The second and third graphs are interchanged.

Page 235 Line -3. Replace denominator $k+1$ by denominator 2^{k+1}

Page 238 Line 17. Replace Define $\mathbf{X}(t) =$ by Define $\mathbf{X}(x) =$

Page 239 Line -5. Replace certain constants C_1 and C_2

by a certain constant C_1

Page 239 Line -2. Replace $C_2(t-s)^\gamma$ by $C_1(t-s)^\gamma$

Page 240 Line 11. Replace by q factor by by a factor

Page 247 Line -9. Replace $k^2/2^{k-1}$ by $\frac{k^2}{2^{k-1}}$

Page 248 Line 13. After each jump add and their limit points

Page 251 Line -4. Replace $\mathbf{X}'(t) = X(t+p) - X(p)$

by $\mathbf{X}'(t) = \mathbf{X}(t+p) - \mathbf{X}(p)$

Page 254 Line 7. Replace *Brow- nian* by *Brown- ian*

Page 259 Line 14. Replace $p_e = r_e^{\beta'(q)}$ by $p_e = r_e^{-\beta'(q)}$

Page 264 Line -9. Replace $(2((1/4)^s + (1/8)^s))^k$ by $((1/4)^s + (1/8)^s)^k$

Page 264 Line -7. Replace 0.8232 by 0.4057

Page 264 Line -6. Replace 0.5652 by 0.7549 and 1/2 by 1

Page 264 Line -5. Replace display by

$$\lambda = \frac{\sqrt[3]{100 + 12\sqrt{69}}}{6} + \frac{\sqrt[3]{100 - 12\sqrt{69}}}{6} - \frac{1}{3}$$

Page 265 Line 6. Replace paragraph by (5.4.12) The number of descendents eventually reaches zero (so that $K = \emptyset$) when $\Phi(0) = 1$ except in a “deterministic” situation where there is exactly one descendent with probability 1. The number of descendents after n steps is a nonnegative martingale, so it converges; then argue that the limit must be 0 almost surely.

Page 283. Before Haase **add** grook, 193

and before Henstock **add** Hein, Piet, 193

Page 284. Replace multifractal decomposition, 25

by multifractal decomposition, 257