p.68. l.6–8.

誤

$$\int |f+g|^p \mathrm{d}\mu \quad \leq \quad \left(\int |f|^p\right)^{\frac{1}{p}} \left(\int |f+g|^p\right)^{\frac{1}{q}} + \left(\int |g|^p\right)^{\frac{1}{p}} \left(\int |f+g|^p\right)^{\frac{1}{q}}.$$

両辺を $\left(\int |f+g|^p\right)^{\frac{1}{q}}$ で割ると，証明すべき不等式を得る． □

正

$$\int |f+g|^p \mathrm{d}\mu \quad \leq \quad \left(\int |f|^p \mathrm{d}\mu\right)^{\frac{1}{p}} \left(\int |f+g|^p \mathrm{d}\mu\right)^{\frac{1}{q}} + \left(\int |g|^p \mathrm{d}\mu\right)^{\frac{1}{p}} \left(\int |f+g|^p \mathrm{d}\mu\right)^{\frac{1}{q}}.$$

両辺を $\left(\int |f+g|^p \mathrm{d}\mu\right)^{\frac{1}{q}}$ で割ると，証明すべき不等式を得る． □

p.68. **【定義 3.4–ノルム】** l.1.

誤 X を $\mathbb{K}$，$\mathbb{K}=\mathbb{R},\mathbb{C}$，上の線形空間とする．$X$ 上で

正 X を $\mathbb{K}$，$\mathbb{K}=\mathbb{R},\mathbb{C}$，上の線形空間とする．以下，$\mathbb{C}$ はすべての複素数からなる集合を表す．X 上で

p.70. l.6.

誤

$$\sum_{i=1}^{\infty} \|x_{n_i} - x_{n_{i+1}}\| = 1 < \infty$$

正

$$\sum_{i=1}^{\infty} \|x_{n_i} - x_{n_{i+1}}\| < 1 < \infty$$

p.72. **【定義 3.6 – 内積の定義】** l.7.

誤 ii) $\langle x, y\rangle = \overline{\langle x, y\rangle}$.

正 ii) $\langle x, y\rangle = \overline{\langle y, x\rangle}$.

p.74. l.2.

誤　$\therefore\ E' := E_1,\ E'_{j+1} = E_{j+1} \setminus E_j,\ j \in \mathbb{N},$ とすれば,

正　$\therefore\ E'_1 := E_1,\ E'_{j+1} = E_{j+1} \setminus E_j,\ j \in \mathbb{N},$ とすれば,

p.78. l.4.

誤

$$\lim_{i\to\infty} \mu_2((E_i \cap (X_{1_n} \times Y_{1_n}))_{\omega_1}) = \mu_2((E \cap (X_{1_n} \times X_{2_n})_{\omega_1})).$$

正

$$\lim_{i\to\infty} \mu_2((E_i \cap (X_{1_n} \times X_{2_n}))_{\omega_1}) = \mu_2((E \cap (X_{1_n} \times X_{2_n}))_{\omega_1}).$$

p.79. 下 l.3.

誤　$\mu_1 \otimes \mu_2$ と $\mu'_1 \otimes \mu'_2$ を $(\Omega_1 \times \Omega_2, \mathcal{F}_1 \otimes \mathcal{F}_2)$ 上の直積測度とする．いま,

正　$\mu_1 \otimes \mu_2$ と $(\mu_1 \otimes \mu_2)'$ を $(\Omega_1 \times \Omega_2, \mathcal{F}_1 \otimes \mathcal{F}_2)$ 上の直積測度とする．いま,

p.80. l.4–5.

誤

$$\begin{aligned} &= \lim_{n\to\infty} \mu'_1 \otimes \mu'_2((E_1 \cap X_{1_n}) \times (E_2 \cap X_{2_n})) \\ &= \mu'_1 \otimes \mu'_2(E_1 \times E_2) \end{aligned}$$

正

$$\begin{aligned} &= \lim_{n\to\infty} (\mu_1 \otimes \mu_2)'((E_1 \cap X_{1_n}) \times (E_2 \cap X_{2_n})) \\ &= (\mu_1 \otimes \mu_2)'(E_1 \times E_2) \end{aligned}$$

p.81. 下 l.5.

誤

$$\int f \mathrm{d}\mu_1 \otimes \mu_2 \quad = \quad \lim_{n\to\infty} \int f_n \mathrm{d}\mu_1 \otimes \mu_2 \quad (\because 単調収束定理)$$

正

$$\int f \mathrm{d}\mu_1 \otimes \mu_2 \quad \equiv \quad \lim_{n\to\infty} \int f_n \mathrm{d}\mu_1 \otimes \mu_2$$

p.82. 下 l.4–5.

誤

$$\begin{aligned}
\int\int f\mathrm{d}\mu_2\mathrm{d}\mu_1 &\equiv \int\int f^+\mathrm{d}\mu_2\mathrm{d}\mu_1 - \int\int f^-\mathrm{d}\mu_2\mathrm{d}\mu_1 \\
&= \int\int f^+\mathrm{d}\mu_1\mathrm{d}\mu_2 - \int\int f^-\mathrm{d}\mu_1\mathrm{d}\mu_2 \\
&\equiv \int\int f\mathrm{d}\mu_1\mathrm{d}\mu_2 \\
&= \int f^+\mathrm{d}\mu_1\otimes\mu_2 - \int f^-\mathrm{d}\mu_1\otimes\mu_2 \\
&\equiv \int f\mathrm{d}\mu_1\otimes\mu_2.
\end{aligned}$$

正

$$\begin{aligned}
& \int\int f\mathrm{d}\mu_2\mathrm{d}\mu_1 \\
\equiv\ & \int\int f^+\mathrm{d}\mu_2\mathrm{d}\mu_1 - \int\int f^-\mathrm{d}\mu_2\mathrm{d}\mu_1 \\
=\ & \int\int f^+\mathrm{d}\mu_1\mathrm{d}\mu_2 - \int\int f^-\mathrm{d}\mu_1\mathrm{d}\mu_2 \equiv \int\int f\mathrm{d}\mu_1\mathrm{d}\mu_2 \\
=\ & \int f^+\mathrm{d}\mu_1\otimes\mu_2 - \int f^-\mathrm{d}\mu_1\otimes\mu_2 \quad \equiv \int f\mathrm{d}\mu_1\otimes\mu_2.
\end{aligned}$$