

Errata and Addenda in “The Structure of Compact Groups” 4th Edition of 2020

Version of June 12, 2021

page xxvi Line 7 from below: Read “Finite Dimensional Topological Vector Spaces.”

page xxvi Line 5 from below: Replace “vector spaces” by “Vector Spaces”.

page xxvi Line 4 from below: Replace “topological” by “Topological”.

page xxvi Line 3 from below: Replace “spaces” by “Spaces”.

page 102 in the Diagram after line 15: Replace “ $\mathbb{K}[m] \downarrow$ ” by “ $\mathbb{K}[m]' \downarrow$ ”.

page 117 Line 2 before Exercise E3.24: Replace “ $\chi(g)$ Then” by “ $\chi(g)$. Then”.

page 410 Corollary 8.3, item (4): Replace $(\widehat{\mathbb{Q}})^X$ by $\widehat{\mathbb{Q}}^{X_0}$.

page 413 Line 3: “abelian p -group” by “abelian torsion group”.

page 634 Line 8: Replace “BACKGROUNDS” by “BACKGROUNDS”.

page 817 Line 2: Replace “A3.41” by “A3.42”.

page 820 After Exercise EA3.32 insert the following paragraph:

Exercise EA3.32a. A functor U preserving pullbacks preserves monics. In particular, if U satisfies the equivalent conditions of Exercise EA3.32, it preserves monics. [Hint. Show that the following conditions for a morphism $f: A \rightarrow B$ are equivalent:

(1) f is a monomorphism.

(2) The diagram

$$\begin{array}{ccc} A & \xrightarrow{\text{id}} & A \\ \text{id} \downarrow & & \downarrow f \\ A & \xrightarrow{f} & B \end{array}$$

is a pull-back.]

page 820 After the proof of Theorem A3.52 insert the following sentence:

By Exercise EA3.32a, *a left adjoint functor preserves monics.*

page 830	line 1: Replace “an object” by “on an object”.
page 851	line 3: Replace “ $\mathbf{H}$ ” by “ $\mathbf{H}$ ”.
page 857	line 2 of Theorem A3.94: Before “ $\mathbb{K}$ ” insert “symmetric”.
page 917	Section headline: Read “Finite Dimensional Topological Vector Spaces”.
page 919	Section headline: Read “The Finest Locally Convex Topology”.
page 922	Section headline: Read “Weakly Complete Topological Vector Spaces”.
page 924	lines 8, 7, 6 from below: Replace “ $\mathcal{W}_K$ ” and “ $\mathcal{V}_K$ ” by “ $\mathcal{W}_{\mathbb{K}}$ ”, resp., “ $\mathcal{V}_{\mathbb{K}}$ ”.
page 925	line 2: Replace “ $\mathcal{V}_K$ ” by “ $\mathcal{V}_{\mathbb{K}}$ ”.
page 925	line 4: Replace “ $\mathcal{W}_K$ ” by “ $\mathcal{W}_{\mathbb{K}}$ ”.
page 935	line 3 of Theorem A7.29: Replace “simply” by “prosimply”.
