

LIST OF ERRATA- QUANDLE BOOK

Chapter 1

- Page 21, Example 1, we should remove the THIRD equal sign.

Chapter 2

- Put the arrow vector on all vectors on page 28, example 3, Jacobi identity.
- P 38, third line in Definition 3: the second lower case x should be upper case X , so it reads: $[x] = \{y \in X \mid y \sim x\}$
- P. 40, just before Example 17: Add remark “Note that it is common to require sets in a partition to be nonempty; we prefer to call these *nontrivial partitions*.”
- P. 42, 10 lines from the bottom: the equivalence relation is missing the n , it should read $x' + y' \sim_n x + y$.
- P 45, Example 24, change the last entry 5 to -5 in the second matrix, so it should read:

$$\begin{bmatrix} 1 & 2 & -1 & 3 \\ 2 & 4 & -1 & 1 \end{bmatrix} \sim \begin{bmatrix} 1 & 2 & 0 & -2 \\ 0 & 0 & 1 & -5 \end{bmatrix}$$

- Page 46, end of first paragraph: Add the sentence “Certain relations such as associativity (i.e., $(a * b) * c = a * (b * c)$ for all $a, b, c \in W$), can enable us to simplify our notation by dropping parentheses.”
- P 67, after the equation $H^k = \dots$, change the word “chain complex” to co-chain complex.
- Page 68, Example 50, after the the first diagram, change both C^2 and C^3 to respectively \mathbb{Q}^2 and \mathbb{Q}^3 , so the phrase should read: Here we have $C^0 = 0$, $C^1 = \mathbb{Q}^2$, $C^2 = \mathbb{Q}^2$, $C^3 = \mathbb{Q}^3$, $C^4 = \mathbb{Q}^2$ and $C^5 = 0$.
- P. 69, after the matrices, “For the boundaries...” should read “For the coboundaries...”

Chapter 3

- P. 78, middle of page, rule (ii) should read $x, y \in X$ implies $x \triangleright y \in W_{\mathcal{K}}(X)$.
- P. 81: Example 59: line 4 should read

$$f(x \triangleright y) = f(2y - x) = l(2y - x) = 2(ly) - lx = f(x) \triangleright f(y).$$

- P 83, line -2 before the two figures of Figure Eight, change “fourth” to “fifth”.
- P 91, figure Hexagon Γ_6 change v_n to v_{n-1} so the line passes through v_1 (as it says in the text).

- P 99, line 6 from the bottom, remove "the" (there are two of them).
- P. 101, middle of second paragraph: "...is only defined up multiplication..." should read "...is only defined up to multiplication..."

Chapter 4

- P 130, line 3, should read $f\beta_x = \beta_{f(x)}f$ (since we only assume f homomorphism and not isomorphism).
- P 131, line 6, change the equation to read $\psi \epsilon = \phi$.

Chapter 5

- P 160, Example 107, line 2 after the matrix change 1 to x_1 .