

18.905 Chapter 2

March 27, 2018

Here's a list of small things I found (mostly in Chapter 2, I only quickly flipped through Chapter 3).

- Page 37, middle: “ n cells” to “ n -cells” for consistency
- Page 40, Prop. 16.2: the inequalities $q < k$ and $q > k$ should be interchanged
- Page 42, top: “ $(\bigvee S^{n-1}, *)$ ” should be “ $(\bigvee S^n, *)$ ”
- Page 43, bottom: typo “obtaind” and also $\text{Sk}_{n-1}X$ should be $\text{Sk}_{n-2}X$
- Page 46, Prop. 18.5 proof: “The kernel of that surjection” to “The kernel $F_1 \subset F_0$ of that surjection” to define F_1
- Page 48, middle: typo “such at the”
- Page 50, bottom: the equation $M \times (\bigoplus_{\alpha \in A} N_\alpha) = \bigoplus_{\alpha \in A} (M \times N_\alpha)$ doesn't look right
- Page 54, bottom: “a map $F_1 \rightarrow L_1$ ” should be “a map $F_1 \rightarrow L_0$ ”
- Page 55, Example 22.3: typo “This are both”
- Page 56, middle: You write $k[d]/(d^2)$ for the ring of dual numbers but refer to “multiplication by e ” a couple times further down
- Page 57, top: typo “Hom $-R(M, N)$ ”
- Page 60, bottom: “our comparison map μ ” hasn't been mentioned before, and tensor product of complexes is introduced in the next section
- Page 63, Defn. 25.4: typo “set \mathcal{M} of object”
- Page 66: typo “Poinaré duality”
- Page 72: “ $Z^n(\text{Hom}_R(C_*, N))$ ” missing parentheses
- Page 78, top: “there is a map $S^p \vee S^q \vee S^{p+q} \rightarrow S^{p+q}$... pinches the other two factors to the basepoint.” Perhaps it would be better to just consider the inclusion the other way, to match Cor. 29.4?
- Page 78, middle: typo “all these Euclidean space”
- Page 82, bottom: typo “we can more”
- Page 94, under picture: typo “topologist sine curve”