Errata

Introduction to 3-manifolds by Jennifer Schultens

February 4, 2020

Page 249, Line -7. In the proof of Lemma 7.7.3, the expression " $I(c, \alpha_y)$ " is incorrect. It should be replaced by " $I(c, \alpha_x)$ ".

Page 172, Exercise 1 is incorrect. Instead, it should be "Suppose that F = G + H, H is an inessential sphere and $G \cap H$ is connected. Show that G is isotopic to a subsurface of F."

Page 18, Additional reference for Theorem 1.4.19 (R. H. Bing, E. Moise). [MR0100841, Bing, R. H., An alternative proof that 3-manifolds can be triangulated, Ann. of Math. (2) 69, 1959, 37–65]

Page 44, Line 4. "T" should be "T²" throughout the formula.

Page 48, Proof of Lemma 2.6.2. The expression " $i(\gamma) = ([\gamma] \cdot [m], [\gamma] \cdot [b])$ " should be " $i(\gamma) = ([\gamma] \cdot [m], [\gamma] \cdot [l])$ ".

Page 49, Line 5. The expression "simple closed curves β on S" should be "simple closed curves β on \mathbb{T}^2 ".

Page 51, Lemma 2.6.6, Proof of Lemma 2.6.6 and Lemma 2.6.7. The expression " $f_2 \cdot f_1(\alpha)$ " should be " $f_2 \circ f_1(\alpha)$ ".

Page 52, Figure 2.27. Same as above.

Page 53, Definition 2.6.8. The expression " $\phi(C)$ " should be "h(C)".

Page 60, Definition 3.1.11. The expression " $\sigma: B \to E$ " should be " $\sigma: B \to M$ ".

Page 83, Line -9. The expression "ps + qr = 1" should be "ps - qr = 1".

Page 92, Line 4. The expression " $S \in V, S \in \mathbb{S}^3$ " should be " $S \subset V, S \subset \mathbb{S}^3$ ".

Page 143, Definition 5.1.1. The expression "Let K be a k-simplex" should be "Let K be a simplicial complex".

Page 180, Line -4. The expression "By Alexander's Theorem" should be "By Alexander's Trick (Lemma 2.5.3)".