

# Addendum

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Section 3.3, Notes: For materials covered here, Chapters 1 to 7 of Bonahon [1] form an excellent introduction with often complete proofs. Also, the book by Conway, Burgiel, and Goodman-Strauss [5] does really tremendous job explaining discrete groups and orbifolds. We thoroughly recommend this book for undergraduates students in any science and technology fields.

Section 4.8, Notes: For complete discussion of Riemannian structures on orbifolds, see the Ph.D. thesis of Borzellino [2]. For more complete discussion of suborbifolds and orbifold maps, see the very recent work of Borzellino and Brunsten [3] and [4]. See Theorem 3.10.2 of Thurston [8] for the result that smooth manifolds admit smooth triangulations. We can give as a reference on smooth and PL-structures on manifolds the book by Kirby and Siebenmann [6].

Section 6.3, Notes: See also Section 4.3 of Kamishima and Tan [7] for the theory of the deformation spaces of geometric structures on manifolds.

## References

- [1] F. Bonahon, *Low-dimensional geometry: From Euclidean surfaces to hyperbolic knots*, Student Mathematical Library, 49. IAS/Park City Mathematical Subseries. American Mathematical Society, Providence, RI; Institute for Advanced Study (IAS), Princeton, NJ, 2009. xvi+384 pp.
- [2] J. Borzellino, *Riemannian geometry of orbifolds*, Spring 1992, Ph.D. Thesis UCLA.
- [3] J. Borzellino and V. Brunsten, Elementary orbifold differential topology, *Topology and its Applications*, 159 (2012), 3583–3589.

- [4] J. Borzellino and V. Brunsten, On the notions of suborbifold and orbifold embedding, to appear in *Algebraic & Geometric Topology* (2015).
- [5] J. Conway, H. Burgiel, and C. Goodman-Strauss, *The symmetries of things*, A K Peters, Ltd., Wellesley, MA, 2008. xviii+426 pp.
- [6] R. Kirby and L. Siebenmann, *Foundational essays on topological manifolds, smoothing, and triangulations*, Annals of Mathematical Studies No. 88, Princeton University Press, New Jersey, 1977.
- [7] Y. Kamishima and S.-P. Tan, Deformation spaces on geometric structures. *Aspects of low-dimensional manifolds*, 263–299, *Adv. Stud. Pure Math.*, 20, Kinokuniya, Tokyo, 1992.
- [8] W. Thurston, *Three-dimensional geometry and topology. Vol. 1*, Princeton Mathematical Series, No. 35, Princeton University Press, New Jersey, 1997.