II. Combinatorial Topology

6 Simplicial complexes
7 Spaces and manifolds
8 Euler characteristic

The primary purpose of the three sections in this chapter is the introduction of standard topological language to streamline our discussion of decomposition and connectivity in geometry. The secondary purpose is the construction of a bridge between continuous and discrete concepts in geometry. The idea of a continuous and possibly even differential world is close to our intuitive understanding of physical phenomena, while the discrete setting is natural for computations.