

Course Description of Algebraic Topology

The subject of topology is of interest in its own right, and it also serves to lay the foundations for future study in analysis, in geometry, and in algebraic topology. There is no universal agreement among mathematicians as to what a first course in topology should include; there are many topics that are appropriate to such a course, and not all are equally relevant to these differing purposes. In the choice of material to be treated, I have tried to strike a balance among the various points of view.

This course, constitutes an introduction to the subject of Algebraic Topology. It covers chapters 9-14 of the following book written by James R. Munkres. It depends on only the core material of Chapters 1- 4 of that book. This part of the book treats with some thoroughness the notions of fundamental group and covering space, along with their many and varied applications. Some of the chapters of Part II are independent of one another; the dependence among them is expressed in the following diagram:

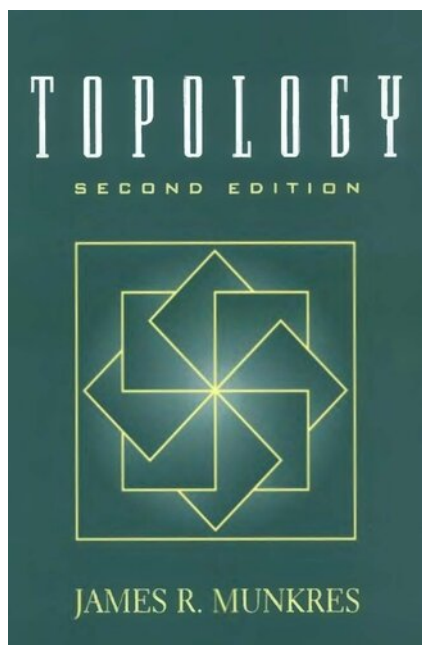
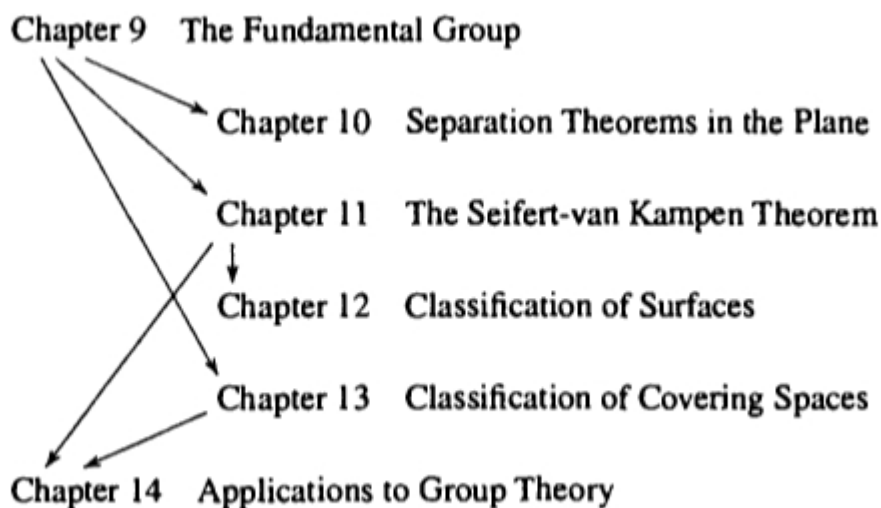


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