



1. INTRODUCTION

In the 1970s, while looking at the galleys of the second volume of his monograph “The Art of Computer Programming,” Donald E. Knuth decided that enough was enough, and a good digital typesetting system had to be invented. Fast forward 10 years (instead of six months—the period Donald Knuth thought would take to finish the project), and, with a lot of help of many people, the first iteration on $\text{T}_{\text{E}}\text{X}$ was complete.

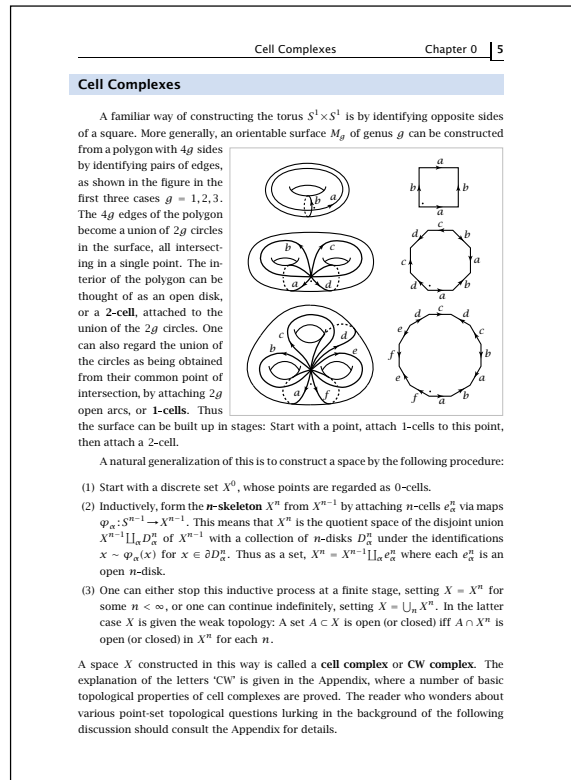
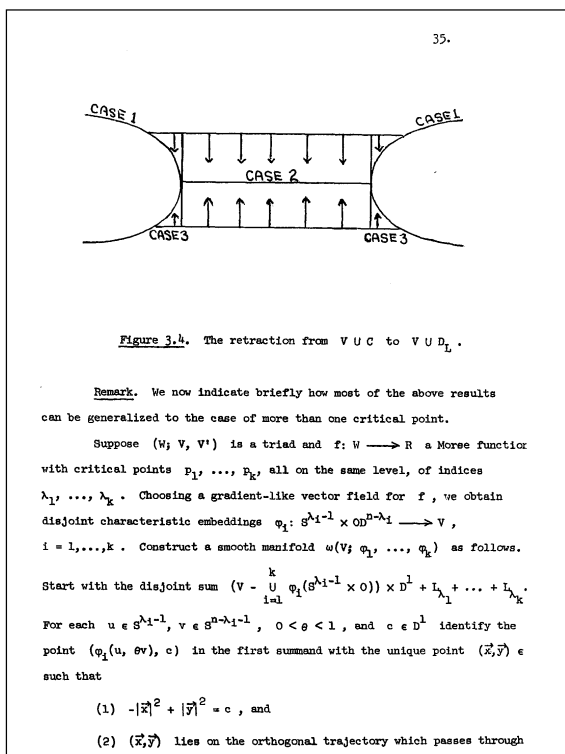


FIGURE 1. As an example, on the left is a page from “Lectures on h-cobordism Theorem” by John Milnor from before $\text{T}_{\text{E}}\text{X}$ days, whereas on the right is a page from “Algebraic Topology” by Allen Hatcher, which is typeset using $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$.

Our course will focus mainly on $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$, a $\text{T}_{\text{E}}\text{X}$ based high-quality software system for document preparation. If you, at some point, plan to produce an academic writing, I would say that it is imperative to familiarize yourself with accepted rules of digital typesetting. Very often, young researchers pick required skills up on their own as needed, by using online resources; this process is usually sporadic and creates habits which are not well suited or efficient in accomplishing goals set by an author.

This course aims to introduce you to accepted rules of presentation and digital typesetting with $\text{T}_{\text{E}}\text{X}/\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$, build from ground up, and create a stable reference point for future acquisition of knowledge and habits.

2. SOME MORE DETAILS

Due to current regulations, this five-day crash course will be done online. Topics that we will cover include: environments and commands for text design, special characters and spaces, outline and document structure, writing mathematics with \LaTeX , some designing issues, references, tables and figures, presentations using beamer class, posters with \LaTeX and defining new commands. There will also be many exercises, for which you will have plenty of time to work independently.

You will receive information about final project during the course.