

In this work, we deal with the topological degree. In the first chapter, we construct the degree in an axiomatic way, prove its properties, and investigate the case where the mapping f is continuously differentiable. In the second chapter, we use the degree to prove various theoretical statements, such as Brouwer's fixed point theorem. After that, we solve several exercises from nonlinear functional analysis. In conclusion, we mention the close relationship between the degree and the winding number of a curve in complex analysis.