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<<代数拓扑导论>>

图书基本信息

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前言

There is a canard that every textbook of algebraic topology either ends with the definition of the Klein bottle or is a personal communication to .I.H.C. Whitehead. Of course, this is false, as a giance at the books of Hilton and Wylie, Maunder, Munkres, and Schubert reveals. Still, the canard does reflect some truth. Too often one finds too much generality and too little attention to details.Tbere are two types of obstacle for the student learning algebraic topology. The first is the formidable array of new techniques （e.g., most students know very little homological algebra）; the second obstacle is that the basic definitions have been so abstracted that their geometric or analytic origins have been obscured. I have tried to overcome these barriers. In the first instance, new definitions are introduced only when needed （e.g., homology with coefficents and cohomology are deferred until after the EilenbergSteenrod axioms have been verified for the three homology theories we treat——singular, simplicial, and cellular）. Moreover, many exercises are given to help the reader assimilate material. In the second instance, important definitions are often accompanied by an informal discussion describing their origins （e.g., winding numbers are discussed before computing, Green's theorem occurs before defining homology, and differential forms appear before introducing cohomology）.

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内容概要

There is a canard that every textbook of algebraic topology either ends with the definition of the Klein bottle or is a personal communication to .I.H.C. Whitehead. Of course, this is false, as a giance at the books of Hilton and Wylie, Maunder, Munkres, and Schubert reveals. Still, the canard does reflect some truth. Too often one finds too much generality and too little attention to details.

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