

<<基本同调代数>>

图书基本信息

书名：<<基本同调代数>>

13位ISBN编号：9787506259583

10位ISBN编号：7506259583

出版时间：2003-6

出版时间：北京世图

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页数：395

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前言

Five years ago, I taught a one-quarter course in homological algebra. I discovered that there was no book which was really suitable as a text for such a short course, so I decided to write one. The point was to cover both Ext and Tor early, and still have enough material for a larger course (one semester or two quarters) going off in any of several possible directions. This book is "also intended to be readable enough for independent study. The core of the subject is covered in Chapters 1 through 3 and the first two sections of Chapter 4. At that point there are several options, Chapters 4 and 5 cover the more traditional aspects of dimension and ring changes. Chapters 6 and 7 cover derived functors in general. Chapter 8 focuses on a special property of Tor. These three groupings are independent, as are various sections from Chapter 9, which is intended as a source of special topics. (The prerequisites for each section of Chapter 9 are stated at the beginning.) Some things have been included simply because they are hard to find elsewhere, and they naturally fit into the discussion. Lazard's theorem (Section 8.4) is an example; Sections 4, 5, and 7 of Chapter 9 contain other examples, as do the appendices at the end. The idea of the book's plan is that subjects can be selected based on the needs of the class. When I taught the course, it was a prerequisite for a course on noncommutative algebraic geometry. It was also taken by several students interested in algebraic topology, who requested the material in Sections 9.2 and 9.3. (One student later said he wished he'd seen injective envelopes, so I put them in, too.) The ordering of the subjects in Chapter

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内容概要

Five years ago, I taught a one-quarter course in homological algebra. I discovered that there was no book which was really suitable as a text for such a short course, so I decided to write one. The point was to cover both Ext and Tot early, and still have enough material for a larger course (one semester or two quarters) going off in any of several possible directions. This book is 'also intended to be readable enough for independent study.

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