

An Introduction to Homological Algebra

Aaron Marcus

September 21, 2007

1 Introduction

While it began as a tool in algebraic topology, the last fifty years have seen homological algebra grow into an indispensable tool for algebraists, topologists, and geometers.

2 Preliminaries

Before we can truly begin, we must first introduce some basic concepts. Throughout, R will denote a commutative ring (though very little actually depends on commutativity). For the sake of discussion, one may assume either that R is a field (in which case we will have chain complexes of vector spaces) or that $R = \mathbb{Z}$ (in which case we will have chain complexes of abelian groups).

2.1 Chain Complexes

Definition 2.1. A **chain complex** is a collection of $\{C_i\}_{i \in \mathbb{Z}}$ of R -modules and maps $\{d_i : C_i \rightarrow C_{i-1}\}$ called **differentials** such that $d_{i-1} \circ d_i = 0$. Similarly, a **cochain complex** is a collection of $\{C^i\}_{i \in \mathbb{Z}}$ of R -modules and maps $\{d^i : C^i \rightarrow C^{i+1}\}$ such that $d^{i+1} \circ d^i = 0$.

$$\cdots \longrightarrow C_{i+1} \xrightarrow{d_{i+1}} C_i \xrightarrow{d_i} C_{i-1} \longrightarrow \cdots$$

Remark 2.2. The only difference between a chain complex and a cochain complex is whether the maps go up in degree (are of degree 1) or go down in degree (are of degree -1). Every chain complex is canonically a cochain complex by setting $C^i = C_{-i}$ and $d^i = d_{-i}$.

Remark 2.3. While we have assumed complexes to be infinite in both directions, if a complex begins or ends with an infinite number of zeros, we can suppress these zeros and discuss finite or **bounded** complexes. Additionally, if $C_i = 0$ for all sufficiently large or sufficiently small values of i , then we say that the complex is **bounded above** or **bounded below**.

To ease notation, the subscripts and superscripts on differentials will be suppressed. For example, the condition that one has a chain complex becomes $d^2 = 0$.

Definition 2.4. Given two chain complexes $C = (C_i, d)$ and $C' = (C'_i, d')$, a **chain map** between them is a collection of maps $f = \{f_i : C_i \rightarrow C'_i\}$ such that $d' \circ f_i = f_{i-1} \circ d$, i.e., the following diagram commutes.

$$\begin{array}{ccccccc} \cdots & \longrightarrow & C_{i+1} & \xrightarrow{d_{i+1}} & C_i & \xrightarrow{d_i} & C_{i-1} \longrightarrow \cdots \\ & & \downarrow f_{i+1} & & \downarrow f_i & & \downarrow f_{i-1} \\ \cdots & \longrightarrow & C'_{i+1} & \xrightarrow{d'_{i+1}} & C'_i & \xrightarrow{d'_i} & C'_{i-1} \longrightarrow \cdots \end{array}$$

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Sze-tsen Hu



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An Introduction to Homological Algebra Charles A. Weibel, 1994 A portrait of the subject of homological algebra as it exists today *An Introduction to Homological Algebra* Joseph Rotman, 2008-11-25 Graduate mathematics students will find this book an easy to follow step by step guide to the subject Rotman's book gives a treatment of homological algebra which approaches the subject in terms of its origins in algebraic topology In this new edition the book has been updated and revised throughout and new material on sheaves and cup products has been added The author has also included material about homotopical algebra alias K theory Learning homological algebra is a two stage affair First one must learn the language of Ext and Tor Second one must be able to compute these things with spectral sequences Here is a work that combines the two *INTRODUCTION TO HOMOLOGICAL ALGEBRA*. Sze-tsen Hu, 1984 *Introduction to Homological Algebra*, 85 Joseph J. Rotman, 1979-09-07 *An Introduction to Homological Algebra* discusses the origins of algebraic topology It also presents the study of homological algebra as a two stage affair First one must learn the language of Ext and Tor and what it describes Second one must be able to compute these things and often this involves yet another language spectral sequences Homological algebra is an accessible subject to those who wish to learn it and this book is the author's attempt to make it lovable This book comprises 11 chapters with an introductory chapter that focuses on line integrals and independence of path categories and functors tensor products and singular homology Succeeding chapters discuss Hom and projectives injectives and flats specific rings extensions of groups homology Ext Tor son of specific rings the return of cohomology of groups and spectral sequences such as bicomplexes Kunneth Theorems and Grothendieck Spectral Sequences This book will be of interest to practitioners in the

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