

<<测度论>>

图书基本信息

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## 前言

In presenting this treatment of homological algebra, it is a pleasure to acknowledge the help and encouragement which I have had from all sides. Homological algebra arose from many sources in algebra and topology. Decisive examples came from the study of group extensions and their factor sets, a subject I learned in joint work with OTTO SCHIL-LING. A further development of homological ideas, with a view to their topological applications, came in my long collaboration with SAHUELEZLENBERG; to both collaborators, especial thanks. For many years the Air Force Office of Scientific Research supported my research projects on various subjects now summarized here; it is a pleasure to acknowledge their lively understanding of basic science.

Both REINHOLD BAER and JOSEF SCHMID read and commented on my entire manuscript; their advice has led to many improvements. ANDERS KOCK and JACQUES RIGUET have read the entire galley proof and caught many slips and obscurities. Among the others whose suggestions have served me well, I note FRANK ADAMS, LOUIS AUSLANDER, WILFRED COCKCROFT, ALBRECHT DOLD, GEOFFREY HORROCKS, FRIED-RICH KASCH, JOHANN LEICHT, ARUNAS LIULEVICIUS, JOHN MOORE, DIETRICH PUFFE, JOSEPH YAO, and a number of my current students at the University of Chicago — not to mention the auditors of my lectures at Chicago, Heidelberg, Bonn, Frankfurt, and Aarhus. My wife, DONOTHY, has cheerfully typed more versions of more chapters than she would like to count. Messrs. SPRINTER have been unfailingly courteous in the preparation of the book; in particular, I am grateful to F. K. SCHMIDT, the Editor of this series, for his support. To all these and others who have helped me, I express my best thanks.

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### 内容概要

本书是Springer研究生数学丛书之一，对测度论的讲述完全不同于一般的教程。该书将概率论作为测度论的必不可少的一部分，所以书中的许多例子都是来自概率论，如独立性、马尔科夫过程、条件期望这些都作为本书的组成部分而不是将其置于附录中作为补充。特别是对Sigma代数做了较多的研究，而不是拿来即用。运用伪度量而不是度量给出了集合空间和函数空间的距离更直观的定义。

## 作者简介

Saunders Mac Lane was born on August 4, 1909 in Connecticut. He studied at Yale University and then at the University of Chicago and at Göttingen, where he received the D. Phil. in 1934. He has taught at Harvard, Cornell and the University of Chicago. Mac Lane's initial research was in logic and in algebraic number theory (valuation theory). With Samuel Eilenberg he published fifteen papers on algebraic topology. A number of them involved the initial steps in the cohomology of groups and in other aspects of homological algebra - as well as the discovery of category theory. His famous undergraduate textbook *Survey of modern algebra*, written jointly with G. Birkhoff, has remained in print for over 50 years. Mac Lane is also the author of several other highly successful books.

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