



#### 图书基本信息

书名:<<测度论>>

13位ISBN编号:9787510004780

10位ISBN编号:7510004780

- 出版时间:2009-6
- 出版时间:世界图书出版公司
- 作者:杜波

页数:210

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#### 前言

In presenting this treatment of homological algebra, it is a pleasureto acknowledge the help and encouragement which I have had fromall sides. Homological algebra arose from many sources in algebra andtopology. 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 theirtopological applications, came in my long collaboration with SAHUELEZLENBERG; to both collaborators, especial thanks. For many yearsthe Air Force Office of Scientific Research supported my researchprojects on various subjects now summarized here; it is a pleasure toacknowledge their lively understanding Of basic science.

Both REINHOLD BAER and JOSEF SCHMID read and commented onmy entire manuscript; their advice has led to many improvements. ANDERS KOCK and JACOUES RIGUET have read the entire galley proofand caught many slips and obscurities. Among the others whose sug-gestions have served me well , I note FRANK ADAMS , LOUIS AUSLANDER , WILFRED COCKCROFT , ALBRECHT DOLD , GEOFFREY HORROCKS , FRIED-RICH KASCH , JOHANN LEICHT , ARUNAS LIULEVIC1US , JOHN MOORE , DIE-TBR PUFFE , JOSEPH YAO , and a number of my current students at theUniversity of Chicago — not to mention the auditors of my lecturesat Chicago , Heidelberg , Bonn , Frankfurt , and Aarhus. My wife , DonoTHY , has cheerfully typed more versions of more chapters than she wouldlike to count. Messrs. SPRINTER have been unfailingly courteous in thepreparation 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 whohave helped me , I express my best thanks.



### 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缺少的一部分,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, 1909in Connecticut. He studied at Yale University and then at the University of Chicago and atG6ttingen, where he received the D. Phil. in 1934. He has taught at Harvard, Cornel1 and theUniversity of Chicago. Mac Lanes initial research was in logic andin algebraic number theory (valuation theory). With Samuel Eilenberg he published fifteenpapers on algebraic topology. A number of theminvolved the initial steps in the cohomology of groups and in other aspects of homological algebra - as well as the discovery of categorytheory. His famous undergraduate textbookSurvey of modern algebra, written jointly withG. Birkhoff, has remained in print for over50 years. Mac Lane is also the author of severalother highly successful books.





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