

Elements of Homology Theory

V. V. Prasolov

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Elements Of Homology Theory Graduate Studies In Mathematics

Smail Djebali



Elements Of Homology Theory Graduate Studies In Mathematics:

Elements of Homology Theory Viktor Vasil'evich Prasolov, 2007 The book is a continuation of the previous book by the author *Elements of Combinatorial and Differential Topology Graduate Studies in Mathematics Volume 74 American Mathematical Society 2006* It starts with the definition of simplicial homology and cohomology with many examples and applications Then the Kolmogorov Alexander multiplication in cohomology is introduced A significant part of the book is devoted to applications of simplicial homology and cohomology to obstruction theory in particular to characteristic classes of vector bundles The later chapters are concerned with singular homology and cohomology and Čech and de Rham cohomology The book ends with various applications of homology to the topology of manifolds some of which might be of interest to experts in the area The book contains many problems almost all of them are provided with hints or complete solutions

Elements of Homology Theory V. V. Prasolov, 2025-02-04 The book is a continuation of the previous book by the author *Elements of Combinatorial and Differential Topology Graduate Studies in Mathematics Volume 74 American Mathematical Society 2006* It starts with the definition of simplicial homology and cohomology with many examples and applications Then the Kolmogorov Alexander multiplication in cohomology is introduced A significant part of the book is devoted to applications of simplicial homology and cohomology to obstruction theory in particular to characteristic classes of vector bundles The later chapters are concerned with singular homology and cohomology and Čech and de Rham cohomology The book ends with various applications of homology to the topology of manifolds some of which might be of interest to experts in the area The book contains many problems almost all of them are provided with hints or complete solutions

Thirty Essays on Geometric Graph Theory János Pach, 2012-12-15 In many applications of graph theory graphs are regarded as geometric objects drawn in the plane or in some other surface The traditional methods of abstract graph theory are often incapable of providing satisfactory answers to questions arising in such applications In the past couple of decades many powerful new combinatorial and topological techniques have been developed to tackle these problems Today geometric graph theory is a burgeoning field with many striking results and appealing open questions This contributed volume contains thirty original survey and research papers on important recent developments in geometric graph theory The contributions were thoroughly reviewed and written by excellent researchers in this field

Algebraic Topology Rafael Ayala, 2012-01-24 **ALGEBRAIC TOPOLOGY** An Introduction starts with the combinatorial definition of simplicial cohomology and its main properties including duality for homology manifolds Then the geometrical facet of cohomology via bordism theory is sketched and it is shown that the corresponding theory for pseudomanifolds coincides with the homology obtained from the singular chain complex The classical applications of cohomology theory are included Degree and fixed point theory are presented with their extensions to infinite dimensional spaces The book also contains a geometric approach to the Hurewicz theorem relating homology and homotopy The last chapter exploits the algebraic invariants introduced in the book to give in detail the

homotopical classification of the three dimensional lens spaces Each chapter concludes with a generous list of exercises and problems many of them contain hints for their solution Some groups of problems introduce a topic not included in the basic core of the book

Discrete Morse Theory Nicholas A. Scoville, 2019-09-27 Discrete Morse theory is a powerful tool combining ideas in both topology and combinatorics Invented by Robin Forman in the mid 1990s discrete Morse theory is a combinatorial analogue of Marston Morse's classical Morse theory Its applications are vast including applications to topological data analysis combinatorics and computer science This book the first one devoted solely to discrete Morse theory serves as an introduction to the subject Since the book restricts the study of discrete Morse theory to abstract simplicial complexes a course in mathematical proof writing is the only prerequisite needed Topics covered include simplicial complexes simple homotopy collapsibility gradient vector fields Hasse diagrams simplicial homology persistent homology discrete Morse inequalities the Morse complex discrete Morse homology and strong discrete Morse functions Students of computer science will also find the book beneficial as it includes topics such as Boolean functions evasiveness and has a chapter devoted to some computational aspects of discrete Morse theory The book is appropriate for a course in discrete Morse theory a supplemental text to a course in algebraic topology or topological combinatorics or an independent study

Introduction to Homotopy Theory Paul Selick, 2008 Offers a summary for students and non specialists who are interested in learning the basics of algebraic topology This book covers fibrations and cofibrations Hurewicz and cellular approximation theorems topics in classical homotopy theory simplicial sets fiber bundles Hopf algebras and generalized homology and cohomology operations

Algebraic Topology Smail Djebali, 2024-11-18 The aim of the textbook is two fold first to serve as an introductory graduate course in Algebraic Topology and then to provide an application oriented presentation of some fundamental concepts in Algebraic Topology to the fixed point theory A simple approach based on point set Topology is used throughout to introduce many standard constructions of fundamental and homological groups of surfaces and topological spaces The approach does not rely on Homological Algebra The constructions of some spaces using the quotient spaces such as the join the suspension and the adjunction spaces are developed in the setting of Topology only The computations of the fundamental and homological groups of many surfaces and topological spaces occupy large parts of the book sphere torus projective space Mobius band Klein bottle manifolds adjunctions spaces Borsuk's theory of retracts which is intimately related to the problem of the extendability of continuous functions is developed in details This theory together with the homotopy theory the lifting and covering maps may serve as additional course material for students involved in General Topology The book comprises 280 detailed worked examples 320 exercises with hints or references 80 illustrative figures and more than 80 commutative diagrams to make it more oriented towards applications maps between spheres Borsuk Ulam Theory Fixed Point Theorems As applications the book offers some existence results on the solvability of some nonlinear differential equations subject to initial or boundary conditions The book is suitable for students primarily enrolled in

Algebraic Topology General Topology Homological Algebra Differential Topology Differential Geometry and Topological Geometry It is also useful for advanced undergraduate students who aspire to grasp easily some new concepts in Algebraic Topology and Applications The textbook is practical both as a teaching and research document for Bachelor Master students and first year PhD students since it is accessible to any reader with a modest understanding of topological spaces The book aspires to fill a gap in the existing literature by providing a research and teaching document which investigates both the theory and the applications of Algebraic Topology in an accessible way without missing the main results of the topics covered

Homology Theory James W. Vick, 2012-12-06 The 20 years since the publication of this book have been an era of continuing growth and development in the field of algebraic topology New generations of young mathematicians have been trained and classical problems have been solved particularly through the application of geometry and knot theory Diverse new resources for introductory coursework have appeared but there is persistent interest in an intuitive treatment of the basic ideas This second edition has been expanded through the addition of a chapter on covering spaces By analysis of the lifting problem it introduces the fundamental group and explores its properties including Van Kampen's Theorem and the relationship with the first homology group It has been inserted after the third chapter since it uses some definitions and results included prior to that point However much of the material is directly accessible from the same background as Chapter 1 so there would be some flexibility in how these topics are integrated into a course The Bibliography has been supplemented by the addition of selected books and historical articles that have appeared since 1973

Algebraic Topology Marvin J. Greenberg, John R. Harper, 2018-03-05 Great first book on algebraic topology Introduces co homology through singular theory

Graduate Catalog Northern Illinois University, 1975 **Graduate Studies**, 1984 **Elements of Homotopy Theory** George W. Whitehead, 2012-12-06 As the title suggests this book is concerned with the elementary portion of the subject of homotopy theory It is assumed that the reader is familiar with the fundamental group and with singular homology theory including the Universal Coefficient and Künneth Theorems Some acquaintance with manifolds and Poincaré duality is desirable but not essential Anyone who has taught a course in algebraic topology is familiar with the fact that a formidable amount of technical machinery must be introduced and mastered before the simplest applications can be made This phenomenon is also observable in the more advanced parts of the subject I have attempted to short circuit it by making maximal use of elementary methods This approach entails a leisurely exposition in which brevity and perhaps elegance are sacrificed in favor of concreteness and ease of application It is my hope that this approach will make homotopy theory accessible to workers in a wide range of other subjects subjects in which its impact is beginning to be felt It is a consequence of this approach that the order of development is to a certain extent historical Indeed if the order in which the results presented here does not strictly correspond to that in which they were discovered it nevertheless does correspond to an order in which they might have been discovered had those of us who were working in the area been a little more

perspicacious *Elements of Combinatorial and Differential Topology* Viktor Vasil'evich Prasolov, Record of the
University of North Carolina at Chapel Hill University of North Carolina at Chapel Hill,1925 *New Technical Books* New
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... Michigan State College,1963 *Algebraic and Geometric Topology* ,2001 *Graduate Programs at Johns Hopkins* Johns
Hopkins University,1959 **Cornell University Courses of Study** Cornell University,2006

Reviewing **Elements Of Homology Theory Graduate Studies In Mathematics**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Elements Of Homology Theory Graduate Studies In Mathematics**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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