

Graduate Texts in Mathematics

George W. Whitehead
**Elements of
Homotopy Theory**

Elements Of Homotopy Theory Graduate Texts In Mathematics

Nathan Michael Wodarz



Elements Of Homotopy Theory Graduate Texts In Mathematics:

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 Homotopy Theory George W. Whitehead, 1978 Algebraic K-Theory and Its Applications Jonathan Rosenberg, 1995-12-22 Algebraic K Theory is crucial in many areas of modern mathematics especially algebraic topology number theory algebraic geometry and operator theory This text is designed to help graduate students in other areas learn the basics of K Theory and get a feel for its many applications Topics include algebraic topology homological algebra algebraic number theory and an introduction to cyclic homology and its interrelationship with K Theory

Braids A. Jon Berrick, 2010 Tutorial on the braid groups Dale Rolfsen Simplicial objects and homotopy groups Jie Wu Introduction to configuration spaces and their applications Frederick R Cohen Configuration spaces braids and robotics Robert Ghrist Braids and magnetic fields Mitchell A Berger Braid group cryptography David Garber *Homotopy Theory and Related Topics* Hiroshi Toda, 1987 The papers in this volume are divided into the following four parts 1 Simple homotopy theory and G actions 2 Classifying spaces and characteristic classes 3 Topology of manifolds 4 Homotopy problems unstable and stable cases

Introduction to Lie Algebras and Representation Theory JAMES HUMPHREYS, 1994-10-27 This book is designed to introduce the reader to the theory of semisimple Lie algebras over an algebraically closed field of characteristic 0 with emphasis on representations A good knowledge of linear algebra including eigenvalues bilinear forms euclidean spaces and tensor products of vector spaces is presupposed as well as some acquaintance with the methods of abstract algebra The first four chapters might well be read by a bright undergraduate however the remaining three chapters are admittedly a little more demanding Besides being useful in many parts of mathematics and physics the theory of semisimple Lie algebras is inherently attractive combining as it does a certain amount of depth and a satisfying degree of

completeness in its basic results Since Jacobson's book appeared a decade ago improvements have been made even in the classical parts of the theory I have tried to incorporate some of them here and to provide easier access to the subject for non specialists For the specialist the following features should be noted I The Jordan Chevalley decomposition of linear transformations is emphasized with toral subalgebras replacing the more traditional Cartan subalgebras in the semisimple case 2 The conjugacy theorem for Cartan subalgebras is proved following D J Winter and G D Mostow by elementary Lie algebra methods avoiding the use of algebraic geometry Handbook of Topological Fixed Point Theory Robert F. Brown, Massimo Furi, L. Gorniewicz, Boju Jiang, 2005-12-05 This book is the first in the world literature presenting all new trends in topological fixed point theory Until now all books connected to the topological fixed point theory were devoted only to some parts of this theory This book will be especially useful for post graduate students and researchers interested in the fixed point theory particularly in topological methods in nonlinear analysis differential equations and dynamical systems The content is also likely to stimulate the interest of mathematical economists population dynamics experts as well as theoretical physicists exploring the topological dynamics **Canadian Journal of Mathematics**, 1990-10 *Théorie de L'homotopie* Haynes R. Miller, 1990 **Bulletin of the American Mathematical Society**, 1993 *The Journal of High Energy Physics*, 2000 *Moduli, Deformations, and Classifications of Compact Complex Manifolds* D. Sundararaman, 1980 **Algebraic Topology** Haynes R. Miller, Douglas C. Ravenel, 1987 During the Winter and spring of 1985 a Workshop in Algebraic Topology was held at the University of Washington The course notes by Emmanuel Dror Farjoun and by Frederick R Cohen contained in this volume are carefully written graduate level expositions of certain aspects of equivariant homotopy theory and classical homotopy theory respectively M E Mahowald has included some of the material from his further papers represent a wide range of contemporary homotopy theory the Kervaire invariant stable splitting theorems computer calculation of unstable homotopy groups and studies of L_n $Im J$ and the symmetric groups **The Structure of Endofunctors of the Category of CW-complexes** Nathan Michael Wodarz, 2002 **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 *Library of Congress Catalogs* Library of
Congress,1980 Pacific Journal of Mathematics ,1987-11 Acta Scientiarum Mathematicarum ,1982 **Manuscripta**
Mathematica ,1989 **Sūgaku Expositions** ,2007

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