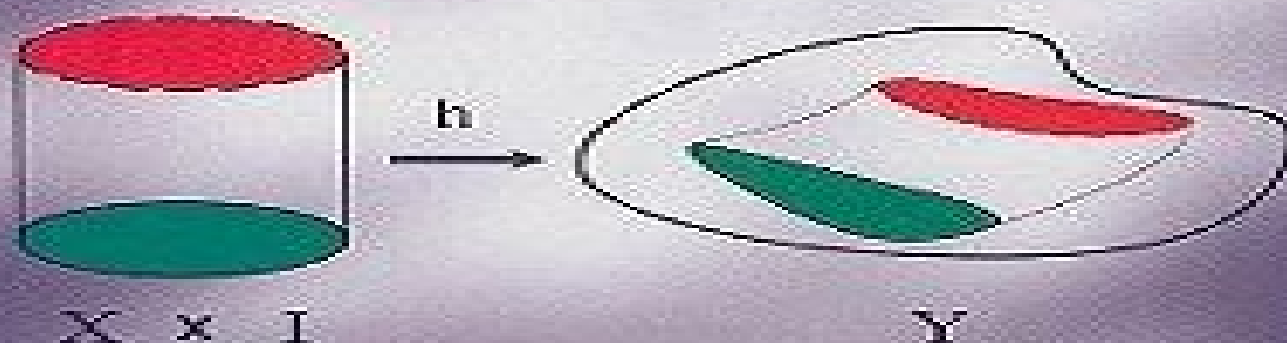


Abstract Homotopy and Simple Homotopy Theory

K H Kamps
T Porter



Abstract Homotopy And Simple Homotopy Theory

T. A. Chapman



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Abstract Homotopy and Simple Homotopy Theory K. H. Kamps, T. Porter, 1986 A *Course in Simple-Homotopy Theory* M.M. Cohen, 2012-12-06 This book grew out of courses which I taught at Cornell University and the University of Warwick during 1969 and 1970 I wrote it because of a strong belief that there should be readily available a semi historical and geo metrically motivated exposition of J H C Whitehead s beautiful theory of simple homotopy types that the best way to understand this theory is to know how and why it was built This belief is buttressed by the fact that the major uses of and advances in the theory in recent times for example the s cobordism theorem discussed in 25 the use of the theory in surgery its extension to non compact complexes discussed at the end of 6 and the proof of topological invariance given in the Appendix have come from just such an understanding A second reason for writing the book is pedagogical This is an excellent subject for a topology student to grow up on The interplay between geometry and algebra in topology each enriching the other is beautifully illustrated in simple homotopy theory The subject is accessible as in the courses mentioned at the outset to students who have had a good one semester course in algebraic topology I have tried to write proofs which meet the needs of such students When a proof was omitted and left as an exercise it was done with the welfare of the student in mind He should do such exercises zealously

A Course in Simple-homotopy Theory Marshall M. Cohen, 1973

Handbook of Algebraic Topology I.M. James, 1995-07-18 Algebraic topology also known as homotopy theory is a flourishing branch of modern mathematics It is very much an international subject and this is reflected in the background of the 36 leading experts who have contributed to the Handbook Written for the reader who already has a grounding in the subject the volume consists of 27 expository surveys covering the most active areas of research They provide the researcher with an up to date overview of this exciting branch of mathematics

Directed Algebraic Topology Marco Grandis, 2009-09-17 This is the first authored book to be dedicated to the new field of directed algebraic topology that arose in the 1990s in homotopy theory and in the theory of concurrent processes Its general aim can be stated as modelling non reversible phenomena and its domain should be distinguished from that of classical algebraic topology by the principle that directed spaces have privileged directions and directed paths therein need not be reversible Its

homotopical tools corresponding in the classical case to ordinary homotopies fundamental group and fundamental groupoid should be similarly non reversible directed homotopies fundamental monoid and fundamental category Homotopy constructions occur here in a directed version which gives rise to new shapes like directed cones and directed spheres Applications will deal with domains where privileged directions appear including rewrite systems traffic networks and biological systems The most developed examples can be found in the area of concurrency

Categories in Algebra, Geometry and Mathematical Physics Alexei Davydov, 2007 Category theory has become the universal language of modern mathematics This book is a collection of articles applying methods of category theory to the areas of algebra geometry and mathematical physics Among others this book contains articles on higher categories and their applications and on homotopy theoretic methods The reader can learn about the exciting new interactions of category theory with very traditional mathematical disciplines

Galois Theory, Hopf Algebras, and Semiabelian Categories George Janelidze, Bodo Pareigis, and Walter Tholen, Galois Theory, Hopf Algebras, and Semiabelian Categories George Janelidze, 2004 This volume is based on talks given at the Workshop on Categorical Structures for Descent and Galois Theory Hopf Algebras and Semiabelian Categories held at The Fields Institute for Research in Mathematical Sciences Toronto ON Canada The meeting brought together researchers working in these interrelated areas This collection of survey and research papers gives an up to date account of the many current connections among Galois theories Hopf algebras and semiabelian categories The book features articles by leading researchers on a wide range of themes specifically abstract Galois theory Hopf algebras and categorical structures in particular quantum categories and higher dimensional structures Articles are suitable for graduate students and researchers specifically those interested in Galois theory and Hopf algebras and their categorical unification

Relation Between Abstract Homotopy and Geometric Homotopy Sadanand Verma, 1959

Monoidal Category Theory Noshir S. Yanofsky, 2024-11-05 A comprehensive cutting edge and highly readable textbook that makes category theory and monoidal category theory accessible to students across the sciences Category theory is a powerful framework that began in mathematics but has since expanded to encompass several areas of computing and science with broad applications in many fields In this comprehensive text Noshir Yanofsky makes category theory accessible to those without a background in advanced mathematics Monoidal Category Theory demonstrates the expansive uses of categories and in particular monoidal categories throughout the sciences The textbook starts from the basics of category theory and progresses to cutting edge research Each idea is defined in simple terms and then brought alive by many real world examples before progressing to theorems and uncomplicated proofs Richly guided exercises ground readers in concrete computation and application The result is a highly readable and engaging textbook that will open the world of category theory to many Makes category theory accessible to non math majors Uses easy to understand language and emphasizes diagrams over equations Incremental iterative approach eases students into advanced concepts A series of embedded mini courses cover such popular topics as

quantum computing categorical logic self referential paradoxes databases and scheduling and knot theory Extensive exercises and examples demonstrate the broad range of applications of categorical structures Modular structure allows instructors to fit text to the needs of different courses Instructor resources include slides [Quaestiones Mathematicae](#), 1990 **Cahiers de Topologie Et Géométrie Différentielle Catégoriques**, 2007 *Shape Theory and Geometric Topology* S. Mardesic, J. Segal, 2006-11-14 **Recent Advances in Group Theory and Low-dimensional Topology** Jens L. Mennicke, Jung Rae Cho, 2003 **Mathematical Reviews**, 1998 **Homotopy Theory** I. M. James, 2014-05-09 Homotopy Theory contains all the published mathematical work of J H C Whitehead written between 1947 and 1955 This volume considers the study of simple homotopy types particularly the realization of problem for homotopy types It describes Whitehead s version of homotopy theory in terms of CW complexes This book is composed of 21 chapters and begins with an overview of a theorem to Borsuk and the homotopy type of ANR The subsequent chapters deal with four dimensional polyhedral the homotopy type of a special kind of polyhedron and the combinatorial homotopy I and II These topics are followed by reviews of other homotopy types such as group extensions with homotopy operators cohomology systems secondary boundary operator algebraic homotopy and the G dual of a semi exact couple The last chapters examine the connected complex homotopy types and the second non vanishing homotopy groups This book will be of great value to mathematicians **Reviews in Complex Analysis, 1980-1986**, 1989 *Noncommutative Geometry and Quantum Groups* Piotr M. Hajac, Wiesław Pusz, 2003 **Controlled Simple Homotopy Theory and Applications** T. A. Chapman, 2006-11-14

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