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Hans-Joachim Baues

COMBINATORIAL HOMOTOPY AND 4-DIMENSIONAL COMPLEXES

DE GRUYTER EXPOSITIONS IN MATHEMATICS

Combinatorial Homotopy And 4dimensional Complexes

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Combinatorial Homotopy And 4dimensional Complexes:

Combinatorial Homotopy and 4-dimensional Complexes Hans J. Baues,1991 The bulk of the book is devoted to the algebraic theory of quadratic modules and their connections with 4 dimensional complexes Pontrjagin squares homotopy groups the cohomology of categories and algebraic K theory The first three chapters provide the background needed and may serve as an introduction to basic combinatorial homotopy theory Annotation copyrighted by Book News Inc Portland OR

Combinatorial Homotopy and 4-dimensional Complexes Hans J. Baues,1991 **Preface by Ronald Brown to 'Combinatorial Homotopy and 4-dimensional Complexes' by H. J. Baues** R. Brown,1990 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 *Topology '90* Boris N. Apanasov,Walter D. Neumann,Alan W. Reid,Laurent Siebenmann,2011-10-13 No detailed description available for Topology 90 *New Spaces in Mathematics* Mathieu Anel,Gabriel Catren,2021-04 In this graduate level book leading researchers explore various new notions of space in mathematics **Surveys on Surgery Theory, Volume 1** Sylvain Cappell,Andrew Ranicki,Jonathan Rosenberg,2014-09-08 Surgery theory the basis for the classification theory of manifolds is now about forty years old There have been some extraordinary accomplishments in that time which have led to enormously varied interactions with algebra analysis and geometry Workers in many of these areas have often lamented the lack of a single source that surveys surgery theory and its applications Indeed no one person could write such a survey The sixtieth birthday of C T C Wall one of the leaders of the founding generation of surgery theory provided an opportunity to rectify the situation and produce a comprehensive book on the subject Experts have written state of the art reports that will be of broad interest to all those interested in topology not only graduate students and mathematicians but mathematical physicists as well Contributors include J Milnor S Novikov W Browder T Lance E Brown M Kreck J Klein M Davis J Davis I Hambleton L Taylor C Stark E Pedersen W Mio J Levine K Orr J Roe J Milgram and C Thomas 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 **Notices of the American Mathematical Society** American Mathematical Society,1991 Complexes and Manifolds I. M. James,2014-05-16 The Mathematical Works of J H C Whitehead Volume 2 Complexes and Manifolds contains papers that are related in some way to

the classification problem for manifolds especially the Poincare conjecture but towards the end one sees the gradual transition in the direction of algebraic topology This volume includes all Whitehead's published work up to the year 1941 as well as a few later papers The book begins with a list of Whitehead's works in chronological order of writing This is followed by separate chapters on topics such as analytical complexes duality and intersection chains in combinatorial analysis situs three dimensional manifolds doubled knots certain sets of elements in a free group certain invariants introduced by Reidemeister and the asphericity of regions in a 3 sphere Also included are chapters on the homotopy type of manifolds the incidence matrices nuclei and homotopy types vector fields on the n sphere and operators in relative homotopy groups

Algebra Colloquium, 2007 **Transactions of the American Mathematical Society**, 1996 **Bulletin of the Belgian Mathematical Society, Simon Stevin**, 2008 Hiroshima Mathematical Journal, 2004 *Algebraic Topology, Poznań 1989* Stefan Jackowski, Robert Oliver, Krzysztof Pawłowski, 1991 As part of the scientific activity in connection with the 70th birthday of the Adam Mickiewicz University in Poznań an international conference on algebraic topology was held In the resulting proceedings volume the emphasis is on substantial survey papers some presented at the conference some written subsequently **Algebraic Topology** J. Aguadé, Manuel Castellet, Frederick Ronald Cohen, 1992 The papers in this collection all fully refereed original papers reflect many aspects of recent significant advances in homotopy theory and group cohomology From the Contents A Adem On the geometry and cohomology of finite simple groups D J Benson Resolutions and Poincaré duality for finite groups C Broto and S Zarati On subalgebras of HV M J Hopkins N J Kuhn D C Ravenel Morava K theories of classifying spaces and generalized characters for finite groups K Ishiguro Classifying spaces of compact simple Lie groups and p tori A T Lundell Concise tables of James numbers and some homotopy of classical Lie groups and associated homogeneous spaces J R Martino An example of a stable splitting the classifying space of the 4 dim unipotent group J E McClure L Smith On the homotopy uniqueness of $BU(2)$ at the prime 2 G Mislin Cohomologically central elements and fusion in groups *Character Theory of Finite Groups* Bertram Huppert, 1998 No detailed description available for Character Theory of Finite Groups Four-manifolds, Geometries and Knots Jonathan Arthur Hillman, 2002 *Annals of Mathematics Studies*, 1940 **Communications de la Faculté Des Sciences de L'Université D'Ankara**, 1997

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