



# Iterating The Cobar Construction

**Dieter Happel, Idun Reiten, Sverre O.  
Smalø**



## Iterating The Cobar Construction:

**Iterating the Cobar Construction** Justin R. Smith, 1994 This paper develops a new invariant of a CW complex called the  $m$  structure and uses it to perform homotopy theoretic computations The  $m$  structure of a space encapsulates the coproduct structure as well as higher coproduct structures that determine Steenrod operations Given an  $m$  structure on the chain complex of a reduced simplicial complex of a pointed simply connected space one can equip the cobar construction of this chain complex with a natural  $m$  structure This result allows one to form iterated cobar constructions that are shown to be homotopy equivalent to iterated loop spaces *Iterating the Cobar Construction* Associate Professor Department of Mathematics and Computer Science Justin R Smith, 2014-08-31 This book develops a new topological invariant called the  $m$  structure which incorporates all information contained in the canonical coproduct and the Steenrod operations Given a chain complex equipped with an  $m$  structure Smith shows that its cobar construction also has a natural  $m$  structure This derived  $m$  structure of the cobar construction corresponds to the  $m$  structure of the loop space of the original space under the map that carries the cobar construction to the loop space This result allows one to form iterated cobar constructions which Smith shows are homotopy equivalent to iterated loop spaces These results are applied to the computation of the cohomology algebra structure of total spaces of fibrations *Geometry of Loop Spaces and the Cobar Construction* Hans J. Baues, 1980 The homology of iterated loop spaces capital Greek Omega superscript  $n$  italic  $X$  has always been a problem of major interest because it gives some insight into the homotopy of italic  $X$  among other things Therefore if italic  $X$  is a CW complex one has been interested in small CW models for capital Greek Omega superscript  $n$  italic  $X$  in order to compute the cellular chain complex The author proves a very general model theorem from which he can derive models in addition to very technical proofs of the model theorem for several other models **Hilbert's Projective Metric and Iterated Nonlinear Maps** Roger D. Nussbaum, 1988 Operads in Algebra, Topology and Physics Martin Markl, Steven Shnider, James D. Stasheff, 2002 Operads are mathematical devices which describe algebraic structures of many varieties and in various categories From their beginnings in the 1960s they have developed to encompass such areas as combinatorics knot theory moduli spaces string field theory and deformation quantization **A User's Guide to Spectral Sequences** John McCleary, 2001 Spectral sequences are among the most elegant and powerful methods of computation in mathematics This book describes some of the most important examples of spectral sequences and some of their most spectacular applications The first part treats the algebraic foundations for this sort of homological algebra starting from informal calculations The heart of the text is an exposition of the classical examples from homotopy theory with chapters on the Leray Serre spectral sequence the Eilenberg Moore spectral sequence the Adams spectral sequence and in this new edition the Bockstein spectral sequence The last part of the book treats applications throughout mathematics including the theory of knots and links algebraic geometry differential geometry and algebra This is an excellent reference for students and researchers in geometry

topology and algebra     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     **The Cohen-Macaulay and Gorenstein Rees Algebras Associated to Filtrations** Shirō Gotō, Kōji Nishida, 1994 At first this volume was intended to be an investigation of symbolic blow up rings for prime ideals defining curve singularities The motivation for that has come from the recent 3 dimensional counterexamples to Cowsik's question given by the authors and Watanabe it has to be helpful for further researches on Cowsik's question and a related problem of Kronecker to generalize their methods to those of a higher dimension However while the study was progressing it proved apparent that the framework of Part I still works not only for the rather special symbolic blow up rings but also in the study of Rees algebras  $R_F$  associated to general filtrations  $F = \bigcap_{n \geq 0} F_n$  of ideals This observation is closely explained in Part II of this volume as a general ring theory of Rees algebras  $R_F$  We are glad if this volume will be a new starting point for the further researchers on Rees algebras  $R_F$  and their associated graded rings  $G_F$      On Finite Groups and Homotopy Theory Ran Levi, 1995 In part 1 we study the homology homotopy and stable homotopy of capital Greek  $\Omega$  italic capital  $B$  lowercase Greek  $\pi$  up arrowhead over subscript italic  $p$  where italic capital  $G$  is a finite italic  $p$  perfect group In part 2 we define the concept of resolutions by fibrations over an arbitrary family of spaces     *Textile Systems for Endomorphisms and Automorphisms of the Shift* Masakazu Nasu, 1995 We introduce the notion of a textile system Using this we study the dynamical properties of endomorphisms and automorphisms of topological Markov shifts including one sided ones The dynamical properties of automorphisms of sofic systems are also studied     **The Major Counting of Nonintersecting Lattice Paths and Generating Functions for Tableaux** Christian Krattenthaler, 1995 A theory of counting nonintersecting lattice paths by the major index and its generalizations is developed We obtain determinantal expressions for the corresponding generating functions for families of nonintersecting lattice paths with given starting points and given final points where the starting points lie on a line parallel to italic  $x$  italic  $y = 0$  In some cases these determinants can be evaluated to result in simple products As applications we compute the generating function for tableaux with italic  $p$  odd rows with at most italic  $c$  columns and with parts between 1 and italic  $n$  Moreover we compute the generating function for the same kind of tableaux which in addition have only odd parts We thus also obtain a closed form for the generating function for symmetric plane partitions with at most italic  $n$  rows with parts between 1 and italic  $c$  and with italic  $p$  odd entries on the main diagonal In each case the result is a simple product By summing with respect to italic  $p$  we provide new proofs of the Bender Knuth and MacMahon ex conjectures which were first proved by Andrews Gordon and Macdonald The link between nonintersecting

lattice paths and tableaux is given by variations of the Knuth correspondence

*Christoffel Functions and Orthogonal Polynomials for Exponential Weights on  $[-1, 1]$*  A. L. Levin, Doron Shaul Lubinsky, 1994 Bounds for orthogonal polynomials which hold on the whole interval of orthogonality are crucial to investigating mean convergence of orthogonal expansions weighted approximation theory and the structure of weighted spaces This book focuses on a method of obtaining such bounds for orthogonal polynomials and their Christoffel functions associated with weights on  $[-1, 1]$  Also presented are uniform estimates of spacing of zeros of orthogonal polynomials and applications to weighted approximation theory

Some Special Properties of the Adjunction Theory for  $\mathbb{P}^5$ -Folds in  $\mathbb{P}^5$  Mauro Beltrametti, Michael Schneider, Andrew John Sommese, 1995 This work studies the adjunction theory of smooth 3 folds in  $\mathbb{P}^5$  Because of the many special restrictions on such 3 folds the structure of the adjunction theoretic reductions are especially simple e.g. the 3 fold equals its first reduction the second reduction is smooth except possibly for a few explicit low degrees and the formulae relating the projective invariants of the given 3 fold with the invariants of its second reduction are very explicit Tables summarizing the classification of such 3 folds up to degree 12 are included Many of the general results are shown to hold for smooth projective  $n$  folds embedded in  $\mathbb{P}^N$  with  $N \geq 2n + 1$

Deformation Theory of Pseudogroup Structures Victor Guillemin, Shlomo Sternberg, 1966

**Inverse Nodal Problems: Finding the Potential from Nodal Lines** Ole H. Hald, Joyce McLaughlin, 1996 In this paper we consider an eigenvalue problem which arises in the study of rectangular membranes The mathematical model is an elliptic equation in potential form with Dirichlet boundary conditions We show that the potential is uniquely determined up to an additive constant by a subset of the nodal lines of the eigenfunctions A formula is shown which when the additive constant is given yields an approximation to the potential at a dense set of points We present an estimate for the error made by the formula A substantial part of this work is the derivation of the asymptotic forms for a rich set of eigenvalues and eigenfunctions for a large set of rectangles

**Tilting in Abelian Categories and Quasitilted Algebras** Dieter Happel, Idun Reiten, Sverre O. Smalø, 1996 We generalize tilting with respect to a tilting module of projective dimension at most one for an Artin algebra to tilting with respect to a torsion pair in an Abelian category Our construction is motivated by the connection between tilting and derived categories We develop a general theory for such tilting and are led to a generalization of tilting algebras which we call quasitilted algebras This class also contains the canonical algebras and we show that the quasitilted algebras are characterized by having global dimension at most two and each indecomposable module having projective dimension at most one or injective dimension at most one We also give other characterizations of quasitilted algebras and give methods for constructing such algebras

*$C^*$ -Algebra Extensions of  $C(X)$*  Huaxin Lin, 1995 We show that the Weyl von Neumann theorem for unitaries holds for lowercase Greek Sigma unital italic capital A italic capital F algebras and their multiplier algebras

**Harmonic Analysis for Anisotropic Random Walks on Homogeneous Trees** Alessandro Figà-Talamanca, Tim Steger, 1994 This work presents a detailed study of the anisotropic

series representations of the free product group  $Z \amalg Z \amalg Z \amalg Z$ . These representations are infinite dimensional irreducible and unitary and can be divided into principal and complementary series. Anisotropic series representations are interesting because while they are not restricted from any larger continuous group in which the discrete group is a lattice they nonetheless share many properties of such restrictions. The results of this work are also valid for nonabelian free groups on finitely many generators.

Global Aspects of Homoclinic Bifurcations of Vector Fields Ale Jan Homburg, 1996 In this book the author investigates a class of smooth one parameter families of vector fields on some  $n$  dimensional manifold exhibiting a homoclinic bifurcation. That is he considers generic families  $x_\mu$  where  $x_0$  has a distinguished hyperbolic singularity  $p$  and a homoclinic orbit an orbit converging to  $p$  both for positive and negative time. It is assumed that this homoclinic orbit is of saddle saddle type characterized by the existence of well defined directions along which it converges to the singularity  $p$ . The study is not confined to a small neighborhood of the homoclinic orbit. Instead the position of the stable and unstable set of the homoclinic orbit is incorporated and it is shown that homoclinic bifurcations can lead to complicated bifurcations and dynamics including phenomena like intermittency and annihilation of suspended horseshoes.

**Diagram Cohomology and Isovariant Homotopy Theory** Giora Dula, Reinhard Schultz, 1994 Obstruction theoretic methods are introduced into isovariant homotopy theory for a class of spaces with group actions the latter includes all smooth actions of cyclic groups of prime power order. The central technical result is an equivalence between isovariant homotopy and specific equivariant homotopy theories for diagrams under suitable conditions. This leads to isovariant Whitehead theorems an obstruction theoretic approach to isovariant homotopy theory with obstructions in cohomology groups of ordinary and equivalent diagrams and qualitative computations for rational homotopy groups of certain spaces of isovariant self maps of linear spheres. The computations show that these homotopy groups are often far more complicated than the rational homotopy groups for the corresponding spaces of equivariant self maps. Subsequent work will use these computations to construct new families of smooth actions on spheres that are topologically linear but differentiably nonlinear.

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