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# Iterating The Cobar Construction

**L. J. Billera, Mikhail M. Kapranov, Bernd  
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## 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

**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

Contemporary Trends in Algebraic Geometry and Algebraic Topology Shiing-Shen Chern, 2002 The Wei Liang Chow and Kuo Tsai Chen Memorial Conference was proposed and held by Prof S S Chern in Nankai Institute of Mathematics It was devoted to memorializing those two outstanding and original Chinese mathematicians who had made significant contributions to algebraic geometry and algebraic topology respectively It also provided a forum for leading mathematicians to expound and discuss their views on new ideas in these fields as well as trends in 21st Century mathematics About 100 mathematicians participated in the conference including Sir Michael Atiyah Jacob Palis Phillip Griffiths David Eisenbud Philippe Tondeur Yujiro Kawamata Tian Gang etc This invaluable volume contains the selected papers presented at the conference The topics include canonical maps of Gorenstein 3 folds fundamental groups of algebraic curves Chen's iterated integrals algebraic fiber spaces and others

**Iterated Integrals and Homotopy Periods** Richard Martin Hain, 1984 Of the various minimal algebraic models of a simply connected space that have been constructed in the last decade possibly the least understood and the one most suitable for application in geometry is K T Chen's non commutative algebra model In this paper we give a complete exposition of Chen's methods and extend these in two directions we establish a rational version of Chen's theory for simply connected semisimplicial complexes and we show that the set of primitive elements of Chen's model is a Lie algebra model of the space whose generators correspond to cells in the space that represent non trivial rational homology classes

Collected Papers of K.T. Chen Kuo-Tsai Chen, Philippe Tondeur, 2001-06-21 Kuo Tsai Chen 1923 1987 is best known to the mathematics community for his work on iterated integrals and power series connections in conjunction with his research on the cohomology of loop spaces His work is intimately related to the theory of minimal models as developed by Dennis Sullivan whose own work was in part inspired by the research of Chen An outstanding and original mathematician Chen's work falls naturally into three periods his early work on group theory and links in the three sphere his

subsequent work on formal differential equations which gradually developed into his most powerful and important work and his work on iterated integrals and homotopy theory which occupied him for the last twenty years of his life The goal of Chen's iterated integrals program which is a de Rham theory for path spaces was to study the interaction of topology and analysis through path integration The present volume is a comprehensive collection of Chen's mathematical publications preceded by an article The Life and Work of Kuo Tsai Chen placing his work and research interests into their proper context and demonstrating the power and scope of his influence

**The Unstable Adams Spectral Sequence for Free Iterated Loop Spaces** Robert J. Wellington, 1982 The semi stable homotopy groups of a topological space  $X$  are the unstable homotopy groups  $\pi_n(X)$  of the suspensions of  $X$  This monograph is concerned with computing these semi stable homotopy groups using the unstable Adams spectral sequence for the free iterated loop spaces  $\Omega^n X$  generated by  $X$

**Conference on Algebraic Topology**, 1969 **Mathematical Reviews**, 2005 Algebraic and Geometric Topology, 2001 **Notices of the American Mathematical Society** American Mathematical Society, 1994 **Annals of Mathematics**, 1982 **Rapport**, 2001 **Duke Mathematical Journal**, 1968 Without specializing in a small number of subject areas this journal emphasizes the most active and influential areas of current mathematics

**The Cumulative Book Index**, 1995 A world list of books in the English language **Acta Mathematica Vietnamica**, 1980 *Supplemento Ai Rendiconti Del Circolo Matematico Di Palermo* Circolo matematico di Palermo, 1981 *Manuscripta Mathematica*, 1987 *Comptes rendus de l'Académie des sciences*, 1999 **Proceedings of A. Razmadze Mathematical Institute**, 1999 **Bulletin of the American Mathematical Society**, 1977

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