



# Cyclic Homology

**Randolph III. McCarthy**



## **Cyclic Homology:**

Cyclic Homology Jean-Louis Loday, 1997-11-12 From the reviews This is a very interesting book containing material for a comprehensive study of the cyclic homological theory of algebras cyclic sets and  $S^1$  spaces Lie algebras and algebraic K theory and an introduction to Connes work and recent results on the Novikov conjecture The book requires a knowledge of homological algebra and Lie algebra theory as well as basic technics coming from algebraic topology The bibliographic comments at the end of each chapter offer good suggestions for further reading and research The book can be strongly recommended to anybody interested in noncommutative geometry contemporary algebraic topology and related topics European Mathematical Society Newsletter In this second edition the authors have added a chapter 13 on MacLane cohomology

Cyclic Homology Of Algebras Peter Seibt, 1987-12-01 This book is purely algebraic and concentrates on cyclic homology rather than on cohomology It attempts to single out the basic algebraic facts and techniques of the theory The book is organized in two chapters The first chapter deals with the intimate relation of cyclic theory to ordinary Hochschild theory The second chapter deals with cyclic homology as a typical characteristic zero theory

Cyclic Homology in Non-Commutative Geometry Joachim Cuntz, Georges Skandalis, Boris Tsygan, 2013-03-14 Cyclic homology was introduced in the early eighties independently by Connes and Tsygan They came from different directions Connes wanted to associate homological invariants to K homology classes and to describe the index pairing with K theory in that way while Tsygan was motivated by algebraic K theory and Lie algebra cohomology At the same time Karoubi had done work on characteristic classes that led him to study related structures without however arriving at cyclic homology properly speaking Many of the principal properties of cyclic homology were already developed in the fundamental article of Connes and in the long paper by Feigin Tsygan In the sequel cyclic homology was recognized quickly by many specialists as a new intriguing structure in homological algebra with unusual features In a first phase it was tried to treat this structure as well as possible within the traditional framework of homological algebra The cyclic homology groups were computed in many examples and new important properties such as product structures excision for H unital ideals or connections with cyclic objects and simplicial topology were established An excellent account of the state of the theory after that phase is given in the book of Loday

**String Topology and Cyclic Homology** Ralph L. Cohen, Kathryn Hess, Alexander A. Voronov, 2006-03-21 This book explores string topology Hochschild and cyclic homology assembling material from a wide scattering of scholarly sources in a single practical volume The first part offers a thorough and elegant exposition of various approaches to string topology and the Chas Sullivan loop product The second gives a complete and clear construction of an algebraic model for computing topological cyclic homology

Cyclic Homology Jean-Louis Loday, 1992-12-14 This book is a comprehensive study of cyclic homology theory together with its relationship with Hochschild homology de Rham cohomology  $S^1$  equivariant homology the Chern character Lie algebra homology algebraic K theory and non commutative differential geometry Though conceived as a

basic reference on the subject many parts of this book are accessible to graduate students

**Lectures on Cyclic Homology** Dale Husemöller, 1991

**Aspects of Boundary Problems in Analysis and Geometry** Juan Gil, Thomas Krainer, Ingo Witt, 2012-12-06

Boundary problems constitute an essential field of common mathematical interest The intention of this volume is to highlight several analytic and geometric aspects of boundary problems with special emphasis on their interplay It includes surveys on classical topics presented from a modern perspective as well as reports on current research The collection splits into two related groups analysis and geometry of geometric operators and their index theory elliptic theory of boundary value problems and the Shapiro Lopatinsky condition

*Local and Analytic Cyclic Homology* Ralf Meyer, 2007

Periodic cyclic homology is a homology theory for non commutative algebras that plays a similar role in non commutative geometry as de Rham cohomology for smooth manifolds While it produces good results for algebras of smooth or polynomial functions it fails for bigger algebras such as most Banach algebras or C algebras Analytic and local cyclic homology are variants of periodic cyclic homology that work better for such algebras In this book the author develops and compares these theories emphasizing their homological properties This includes the excision theorem invariance under passage to certain dense subalgebras a Universal Coefficient Theorem that relates them to K theory and the Chern Connes character for K theory and K homology The cyclic homology theories studied in this text require a good deal of functional analysis in bornological vector spaces which is supplied in the first chapters The focal points here are the relationship with inductive systems and the functional calculus in non commutative bornological algebras Some chapters are more elementary and independent of the rest of the book and will be of interest to researchers and students working on functional analysis and its applications

*Bivariant Periodic Cyclic Homology* Christian Groenbaek, 1999-04-30

Recent work by Cuntz and Quillen on bivariant periodic cyclic homology has caused quite a revolution in the subject In this self contained exposition the author's purpose is to understand the functorial properties of the Cuntz Quillen theory which motivates his explorations of what he calls cyclic pro homology Simply stated the cyclic pro homology of an associative algebra A is short for the  $\mathbb{Z}^2$  graded inverse system of cyclic homology groups of A considered as a pro vector space The author finds that this functor taking algebras over a field k of characteristic zero into the category of pro k vector spaces is remarkable He presents a proof that it is excisive and that it satisfies a Kunneth isomorphism for the tensor product of algebras He explains the relation to the Cuntz Quillen groups in a Universal Coefficient Theorem and in a Milnor  $\lim^1$  sequence This enables the lifting to some extent of the nice properties of cyclic pro homology properties to the Cuntz Quillen theory itself It is interesting to note that for the excision result this lifting procedure goes through without constraints For those new to cyclic homology Dr Groenbaek takes care to provide an introduction to the subject including the motivation for the theory definitions and fundamental results and establishes the homological machinery needed for application to the Cuntz Quillen theory Mathematicians interested in cyclic homology especially ring theorists using homological methods will find this work original enlightening and thought provoking

The author leaves the door open for deeper study into excision for the Cuntz Quillen theory for a class of topological algebras such as the category of  $m$  algebras considered by Cuntz *The Local Structure of Algebraic K-Theory* Bjørn Ian Dundas, Thomas G. Goodwillie, Randy McCarthy, 2012-09-06 Algebraic K theory encodes important invariants for several mathematical disciplines spanning from geometric topology and functional analysis to number theory and algebraic geometry As is commonly encountered this powerful mathematical object is very hard to calculate Apart from Quillen's calculations of finite fields and Suslin's calculation of algebraically closed fields few complete calculations were available before the discovery of homological invariants offered by motivic cohomology and topological cyclic homology This book covers the connection between algebraic K theory and Bökstedt Hsiang and Madsen's topological cyclic homology and proves that the difference between the theories are locally constant The usefulness of this theorem stems from being more accessible for calculations than K theory and hence a single calculation of K theory can be used with homological calculations to obtain a host of nearby calculations in K theory For instance Quillen's calculation of the K theory of finite fields gives rise to Hesselholt and Madsen's calculations for local fields and Voevodsky's calculations for the integers give insight into the diffeomorphisms of manifolds In addition to the proof of the full integral version of the local correspondence between K theory and topological cyclic homology the book provides an introduction to the necessary background in algebraic K theory and highly structured homotopy theory collecting all necessary tools into one common framework It relies on simplicial techniques and contains an appendix summarizing the methods widely used in the field The book is intended for graduate students and scientists interested in algebraic K theory and presupposes a basic knowledge of algebraic topology

*Advances in Noncommutative Geometry* Ali Chamseddine, Caterina Consani, Nigel Higson, Masoud Khalkhali, Henri Moscovici, Guoliang Yu, 2020-01-13 This authoritative volume in honor of Alain Connes the foremost architect of Noncommutative Geometry presents the state of the art in the subject The book features an amalgam of invited survey and research papers that will no doubt be accessed read and referred to for several decades to come The pertinence and potency of new concepts and methods are concretely illustrated in each contribution Much of the content is a direct outgrowth of the Noncommutative Geometry conference held March 23 April 7 2017 in Shanghai China The conference covered the latest research and future areas of potential exploration surrounding topology and physics number theory as well as index theory and its ramifications in geometry *Algebraic K-theory And Its Applications - Proceedings Of The School* Hyman Bass, Aderemi Oluyomi Kuku, C Pedrini, 1999-03-12 The Proceedings volume is divided into two parts The first part consists of lectures given during the first two weeks devoted to a workshop featuring state of the art expositions on Overview of Algebraic K theory including various constructions examples and illustrations from algebra number theory algebraic topology and algebraic differential geometry as well as on more concentrated topics involving connections of K theory with Galois étale cyclic and motivic cohomologies values of zeta functions and Arithmetics of Chow groups and zero cycles The second

part consists of research papers arising from the symposium lectures in the third week Idempotent Matrices over Complex Group Algebras Ioannis Emmanouil, 2005-12-19 The theory of idempotent matrices with entries in complex group algebras has recently experienced a revival in view of its close relationship with deep geometric problems and conjectures The relevant questions studied in this book for general groups are motivated by specific examples A variety of techniques is employed from commutative algebra homological algebra and functional analysis The book can serve as an introduction to this lively research area The pace is suitable for independent study and the level of the presentation not very demanding The exercises at the end of each chapter form an essential part of the book *Cyclic Homology of an Exact Category* Randolph III. McCarthy, 1990

**Valuation Theory and Its Applications** Franz-Viktor Kuhlmann, Salma Kuhlmann, Murray Marshall, This book is the second of two proceedings volumes stemming from the International Conference and Workshop on Valuation Theory held at the University of Saskatchewan Saskatoon SK Canada It contains the most recent applications of valuation theory to a broad range of mathematical ideas Valuation theory arose in the early part of the twentieth century in connection with number theory and continues to have many important applications to algebra geometry and analysis The research and survey papers in this volume cover a variety of topics including Galois theory the Grunwald Wang Theorem algebraic geometry resolution of singularities curves over Prufer domains model theory of valued fields and the Frobenius Hardy fields Hensel's Lemma fixed point theorems and computations in valued fields It is suitable for graduate students and research mathematicians interested in algebra algebraic geometry number theory and mathematical logic

**Cyclic Homology in Non-Commutative Geometry** Joachim Cuntz, Georges Skandalis, Boris Tsygan, 2014-01-15 Contributions by three authors treat aspects of noncommutative geometry that are related to cyclic homology The authors give rather complete accounts of cyclic theory from different points of view The connections between bivariant K theory and cyclic theory via generalized Chern characters are discussed in detail Cyclic theory is the natural setting for a variety of general abstract index theorems A survey of such index theorems is given and the concepts and ideas involved in these theorems are explained

**Noncommutative Geometry and Quantum Groups** Piotr M. Hajac, Wiesław Pusz, 2003 *Introduction to Cyclic Homology* Dale Husemoller, 1993-04

**Cyclic Cohomology at 40: Achievements and Future Prospects** A. Connes, C. Consani, B. I. Dundas, M. Khalkhali, H. Moscovici, 2023-02-23 This volume contains the proceedings of the virtual conference on Cyclic Cohomology at 40 Achievements and Future Prospects held from September 27 October 1 2021 and hosted by the Fields Institute for Research in Mathematical Sciences Toronto ON Canada Cyclic cohomology since its discovery forty years ago in noncommutative differential geometry has become a fundamental mathematical tool with applications in domains as diverse as analysis algebraic K theory algebraic geometry arithmetic geometry solid state physics and quantum field theory The reader will find survey articles providing a user friendly introduction to applications of cyclic cohomology in such areas as higher categorical algebra Hopf algebra symmetries de Rham Witt complex quantum physics etc in which cyclic homology

plays the role of a unifying theme The researcher will find frontier research articles in which the cyclic theory provides a computational tool of great relevance In particular in analysis cyclic cohomology index formulas capture the higher invariants of manifolds where the group symmetries are extended to Hopf algebra actions and where Lie algebra cohomology is greatly extended to the cyclic cohomology of Hopf algebras which becomes the natural receptacle for characteristic classes In algebraic topology the cyclotomic structure obtained using the cyclic subgroups of the circle action on topological Hochschild homology gives rise to remarkably significant arithmetic structures intimately related to crystalline cohomology through the de Rham Witt complex Fontaine s theory and the Fargues Fontaine curve *Organic Chemistry: Carbocyclic and heterocyclic series* Victor von Richter, Edgar Fahs Smith, 1900

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