

**NILPOTENCE AND PERIODICITY IN  
STABLE HOMOTOPY THEORY**

**BY**

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# Nilpotence And Periodicity In Stable Homotopy Theory

## Am 128

**Ralph L. Cohen**



## Nilpotence And Periodicity In Stable Homotopy Theory Am 128:

**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 B kstedt 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

*Bousfield Classes and Ohkawa's Theorem* Takeo Ohsawa, Norihiko Minami, 2020-03-18 This volume originated in the workshop held at Nagoya University August 28 30 2015 focusing on the surprising and mysterious Ohkawa s theorem the Bousfield classes in the stable homotopy category SH form a set An inspiring extensive mathematical story can be narrated starting with Ohkawa s theorem evolving naturally with a chain of motivational questions Ohkawa s theorem states that the Bousfield classes of the stable homotopy category SH surprisingly forms a set which is still very mysterious Are there any toy models where analogous Bousfield classes form a set with a clear meaning The fundamental theorem of Hopkins Neeman Thomason and others states that the analogue of the Bousfield classes in the derived category of quasi coherent sheaves  $D_{qc}(X)$  form a set with a clear algebro geometric description However Hopkins was actually motivated not by Ohkawa s theorem but by his own theorem with Smith in the triangulated subcategory  $SH_c$  consisting of compact objects in SH Now the following questions naturally occur 1 Having theorems of Ohkawa and Hopkins Smith in SH are there analogues for the Morel Voevodsky  $A_1$  stable homotopy category  $SH_k$  which subsumes SH when  $k$  is a subfield of  $C$  2 Was it not natural for Hopkins to have considered  $D_{qc}(X_c)$  instead of  $D_{qc}(X)$  However whereas there is a conceptually simple algebro geometrical interpretation  $D_{qc}(X_c) \simeq D_{perf}(X)$  it is its close relative  $Db_{coh}(X)$  that traditionally ever since Oka and Cartan has been intensively studied because of its rich geometric and physical information This book contains developments for the rest

of the story and much more including the chromatics homotopy theory which the Hopkins Smith theorem is based upon and applications of Lurie's higher algebra all by distinguished contributors

**Nilpotence and Periodicity in Stable Homotopy Theory** Douglas C. Ravenel, 1992-11-08 Nilpotence and Periodicity in Stable Homotopy Theory describes some major advances made in algebraic topology in recent years centering on the nilpotence and periodicity theorems which were conjectured by the author in 1977 and proved by Devinatz Hopkins and Smith in 1985 During the last ten years a number of significant advances have been made in homotopy theory and this book fills a real need for an up to date text on that topic Ravenel's first few chapters are written with a general mathematical audience in mind They survey both the ideas that lead up to the theorems and their applications to homotopy theory The book begins with some elementary concepts of homotopy theory that are needed to state the problem This includes such notions as homotopy homotopy equivalence CW complex and suspension Next the machinery of complex cobordism Morava K theory and formal group laws in characteristic  $p$  are introduced The latter portion of the book provides specialists with a coherent and rigorous account of the proofs It includes hitherto unpublished material on the smash product and chromatic convergence theorems and on modular representations of the symmetric group

**Building Bridges Between Algebra and Topology** Wojciech Chachólski, Tobias Dyckerhoff, John Greenlees, Greg Stevenson, 2018-03-31 This volume presents an elaborated version of lecture notes for two advanced courses Re Emerging methods in Commutative Algebra and Representation Theory and Building Bridges Between Algebra and Topology held at the CRM in the spring of 2015 Homological algebra is a rich and ubiquitous area it is both an active field of research and a widespread toolbox for many mathematicians Together these notes introduce recent applications and interactions of homological methods in commutative algebra representation theory and topology narrowing the gap between specialists from different areas wishing to acquaint themselves with a rapidly growing field The covered topics range from a fresh introduction to the growing area of support theory for triangulated categories to the striking consequences of the formulation in the homotopy theory of classical concepts in commutative algebra Moreover they also include a higher categories view of Hall algebras and an introduction to the use of idempotent functors in algebra and topology

*Transactions of the American Mathematical Society*, 1995      **Mathematical Reviews**, 1994      **Paperbound Books in Print 1995** Reed Reference Publishing, Reference Reed, 1995-12      **Forthcoming Books** Rose Army, 1993-04      *Stable Homotopy over the Steenrod Algebra* John Harold Palmieri, 2001 This title applies the tools of stable homotopy theory to the study of modules over the mod  $p$  Steenrod algebra A DEGREES More precisely let  $A$  be the dual of  $A$  DEGREES then we study the category  $\text{mathsf{stable } A}$  of unbounded cochain complexes of injective comodules over  $A$  in which the morphisms are cochain homotopy classes of maps This category is triangulated Indeed it is a stable homotopy category so we can use Brown representability Bousfield localization Brown Comenetz duality and other homotopy theoretic tools to study it One focus of attention is the analogue of the stable homotopy groups of spheres which in this setting is the cohomology of  $A$

$\mathrm{Ext}_{\mathbb{A}} \mathrm{DEGREES} \mathbf{F}_p \mathbf{F}_p$  This title also has nilpotence theorems periodicity theorems a convergent chromatic tower and a nu

**A Nilpotence Theorem in Stable Homotopy Theory** Ethan Sander Devinatz,1985

**Bordism, Stable Homotopy, and Adams Spectral Sequences** Stanley O. Kochman,2012 Stable Homotopy Theory J. F. Adams,2014-01-15 *Stable Homotopy Theory* John Frank Adams,1961 Axiomatic Stable Homotopy Theory Mark Hovey,John Harold Palmieri,Neil P. Strickland,1997 We define and investigate a class of categories with formal properties similar to those of the homotopy category of spectra This class includes suitable versions of the derived category of modules over a commutative ring or of comodules over a commutative Hopf algebra and is closed under Bousfield localization We study various notions of smallness questions about representability of co homology functors and various kinds of localization We prove theorems analogous to those of Hopkins and Smith about detection of nilpotence and classification of thick subcategories We define the class of Noetherian stable homotopy categories and investigate their special properties Finally we prove that a number of categories occurring in nature including those mentioned above satisfy our axioms Stable Homotopy Theory J.F. Adams,2013-11-11 **Equivariant Stable Homotopy Theory** L. Gaunce Jr. Lewis,J. Peter May,Mark Steinberger,2014-01-15 *Stable Homotopy Theory* J.F. Adams,2013-11-11 Before I get down to the business of exposition I d like to offer a little motivation I want to show that there are one or two places in homotopy theory where we strongly suspect that there is something systematic going on but where we are not yet sure what the system is The first question concerns the stable J homomorphism I recall that this is a homomorphism  $J \rightarrow \Omega_{\infty}^{\infty} S_n$   $n \rightarrow \infty$  It is of interest to the differential topologists Since Bott we know that  $SO$  is periodic with period 8  $r \in \mathbb{Z}$   $r \equiv 1, 2, 3, 4, 5, 7, 9 \pmod{8}$   $\Omega_{\infty}^{\infty} S_n$  is not known but we can nevertheless ask about the behavior of  $J$  The differential topologists prove 2 Th If  $I \rightarrow 1$  so that  $I \mathrm{Tr} SO/2$  then  $J \mathrm{Tr} SO/2^m$  where  $m$  is a multiple of the denominator of  $4k$  th l being in the  $P_c$  Bepnoulli number Conject The above result is best possible i e  $J \mathrm{Tr} SO/2^m$  where  $m$  is exactly this denominator status of conjectuI e No proof in sight Q9njecture Eo If  $I \rightarrow 8k$  or  $8k+1$  so that  $I \mathrm{Tr} SO/2^2$  then  $J \mathrm{Tr} SO/2^2$  status of conjecture Probably provable but this is work in progl ess **Odd Primary Infinite Families in Stable Homotopy Theory** Ralph L. Cohen,2005-10-14 **Parametrized Homotopy Theory** J. Peter May,Johann Sigurdsson,2006 This book develops rigorous foundations for parametrized

homotopy theory which is the algebraic topology of spaces and spectra that are continuously parametrized by the points of a base space It also begins the systematic study of parametrized homology and cohomology theories The parametrized world provides the natural home for many classical notions and results such as orientation theory the Thom isomorphism Atiyah and Poincare duality transfer maps the Adams and Wirthmuller isomorphisms and the Serre and Eilenberg Moore spectral sequences But in addition to providing a clearer conceptual outlook on these classical notions it also provides powerful methods to study new phenomena such as twisted K theory and to make new constructions such as iterated Thom spectra Duality theory in the parametrized setting is particularly illuminating and comes in two flavors One allows the construction

and analysis of transfer maps and a quite different one relates parametrized homology to parametrized cohomology The latter is based formally on a new theory of duality in symmetric bicategories that is of considerable independent interest The text brings together many recent developments in homotopy theory It provides a highly structured theory of parametrized spectra and it extends parametrized homotopy theory to the equivariant setting The theory of topological model categories is given a more thorough treatment than is available in the literature This is used together with an interesting blend of classical methods to resolve basic foundational problems that have no nonparametrized counterparts     *Stable and Unstable*

*Homotopy* William G. Dwyer, 1998-01-01 This volume presents the proceedings of workshops on stable homotopy theory and on unstable homotopy theory held at The Fields Institute as part of the homotopy program during the year 1996 The papers in the volume describe current research in the subject and all included works were refereed Rather than being a summary of work to be published elsewhere each paper is the unique source for the new material it contains The book contains current research from international experts in the subject area and presents open problems with directions for future research

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